

HC6系列油壓缸 HC6 Series Hydraulic Cylinders

軋製鋼形 標準油壓缸 MILL TYPE Standard Hyd, Cylinders

油慶公司之HC6形標準油壓缸,是參照ISO而設計,著重於製鐵機械等,在較其嚴酷之條件使用為目的,適用於苛酷的環境,重覆荷及高壓衝擊的油壓缸

* 加工精度,表面處理,油封材質等各零件都極為考慮的高性能油壓缸

* 振動,衝擊和瞬間極壓等均安全,且具有緩慢順滑之緩衝效果

HC6 Mill Type hyd cylinders are designed according to ISO specifications and specially employed in steel mill plant which meet strictly environmental condition application, heavy load and high pressure impulse resistant etc.,

* Those are emphasised on processing precision surface treatment & oil sealer's material and for which high performance hyd. cylinder.

* Vibration resistant impulse resistant and anti instantaneous burst pressure especially for which being with moved slowly & smoothly etc., cushioning effectmess.

* 規範 Specifications

項目 Item	型式 Model	HC6系列 HC6 Series
缸管內徑 Cylinder Bore	mm	80, 100, 125, 140 160, 180, 200, 220 250, 280, 300, 320
固定座形式 Mounting		FA, FB, LA, TC, CA
使用壓力 Operating Pressure	kgf/cm ²	160kgf/cm ²
* 1 最高使用壓力 Max. Operating Pres.	kgf/cm ²	230kgf/cm ²
最低作動壓力 Min Operating Pres,	kgf/cm ²	5 kgf/cm ²
* 2 最高使用速度 Max, Operating speed	mm/sec	800mm/sec
最低使用速度 Min Operating	缸管內徑 80~140 Cylinder Bore	30 mm/sec
* 3 Speed	mm/sec 160~320	20 mm/sec
最大衝程 Max. Stroke	mm	參考彎曲強度限制值 (DRAW)
* 4 周圍溫度範圍 Range of Ambient Temperature	℃	-10~+80
衝程之容許差 Tolerance of Stroke		JIS B 8354 A級 Refer to Righ Table
活塞桿前端螺紋精度 Accuracy of Threading at Rod End		JIS B 0211-6g(2級)

* 1. 最高使用壓力是含瞬間上擠壓,強度上可使用最高壓力

* 2: 負載之貫性而使缸管發生壓力,請使用在最高壓力值下

* 3: 最低使用速度值,不包含緩衝之行程

* 4: 油封如果使用氟素橡膠VITON材質其溫度可使用至+160℃

1: The max. operating pressure which means the max. operating pressure at instantaneous bursting intensity.

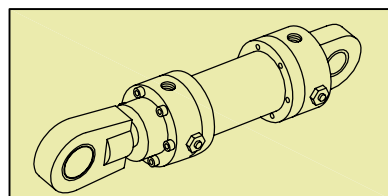
2: The max. operating pressure which no initera loading pressure included.

3: The low speed value which no cushioning stroke included.

If employed the VITON oil sealer and the temp can be reached +160℃

* 衝程之容許差 Tolerance of Stroke

衝程 mm Stroke	容許差 mm Tolerance	衝程 mm Stroke	容許差 mm Tolerance
~100	+0.8	1000~1600	+1.6
100~250	+1.0	1600~2000	+1.8
250~630	+1.25	2000~2500	+2
630~1000	+1.4	2500~3000	+2.5



* 固定座形式 Mounting :

名稱 Description	前蓋端法蘭形 flange at cylinder head
略圖 記號 Symbol FA	
名稱 Description	後蓋端法蘭形 flange at cylinder cap
略圖 記號 Symbol FB	
名稱 Description	軸直角方向腳架形 Foot mounting
略圖 記號 Symbol LA	
名稱 Description	中間固定支撐形 Centre Trunnion mounting
略圖 記號 Symbol TC	
名稱 Description	山形座(1山形) Plae clevis at cylinder cap
略圖 記號 Symbol CA	

除固定形式TC外,行程未超過100MM必須全部使用繫桿式螺絲如下圖

Besides the TC mountings if the stroke is less than 100mm which all must used intensified screw bolt.

缸管內徑 mm Cylinder Bore	衝程 Stroke	缸管內徑 mm Cylinder Bore	衝程 Stroke
50~80	未滿 100	140~200	未滿 200
100~150	未滿 150	224~250	未滿 250

HC6

* 訂購內容索引 Ordering Index :

210

HC6

FA

00/00

500

N

BAD

S

L-DO,F

使用壓力140/230 kgf/cm²
Max. Operating Pres.

HC6:系列
HC6:Series Number

固定座形式 Mounting
FA, FB, LA, TC, CA

缸管內徑 Cylinder Bore	活塞桿徑記號 Rod Type	
ø80	ø45	80/45
	ø56	80/56
ø100	ø56	100/56
	ø70	100/70
ø125	ø70	125/70
	ø90	125/90
ø140	ø90	140/90
	ø100	140/100
ø160	ø100	160/100
	ø110	160/110
ø180	ø110	180/110
	ø125	180/125
ø200	ø125	200/125
	ø140	200/140
ø220	ø140	220/140
	ø160	220/160
ø250	ø160	250/160
	ø180	250/180
ø280	ø180	280/180
	ø200	280/200
ø300	ø180	300/180
	ø200	300/200
ø320	ø200	320/200
	ø220	320/220

特殊附件 Optionals

E:活塞桿前端另類螺紋形

L:前端平行接頭-DO,LO

M:前端球面軸承接頭
-DO,LO

F:附防塵套

K:附固定螺帽

E:Rod end with other
threading,L:Plain Rod End Adapter
DO,LOM:Spherical Rod End
Adapter-DO,LOF:With dust-protective
cover

K:With locking nut

出入口型式 Port Type

SSA, SSA-B, LSA, RC, F5

B出入口之方向 B:Port Position

A緩衝調整器方向 A:Cushioning Valve
Position

D排氣孔之方向 D:Air Vent Position

從前蓋端看出入口和緩衝及排氣孔各
成多少度The above mentioned for which
viewed from cyl. head

緩衝形式 Location of Cushioning

B:前後蓋緩衝 B:The head and cap with
cushioning

R:前蓋緩衝 R:The head with cushioning

H:後蓋緩衝 H:The cap with cushioning

N:沒有緩衝 N:No cushioning

衝程 Stroke mm

要考慮最大容許衝程

Max. Permissible stroke

* 出入口緩衝調整器及排氣孔的方向 Port Cushioning & Air Vent Positions

1:缸體和後蓋相繫分為焊接和螺繫兩種

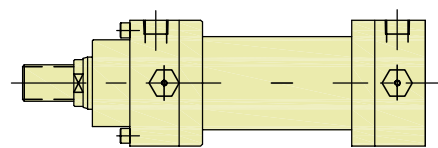
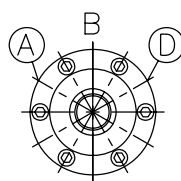
如後蓋無緩衝以焊接為主

2:油孔和緩衝器(A)及排氣孔(D)相關位置

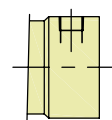
從前蓋端看所成的度數 - 無特別註明以標準為主

1:Those are divided into cap screwed &
cap welded which against the cylinder
and cap assembled but those will be
welded for cap no cushioning.

2:As for, the related position refer to port
cushioning (A) & air vent (D) etc., position which
can be specified by cylinder head formed
angle as fig shown if those are no specified
which means standard.



Cap screwed



Cap welded

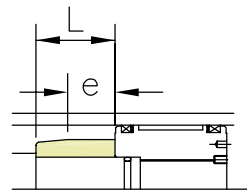
HC6

* 緩衝 Cushioning:

因為緩衝環是經過特殊之節流加工，使得有緩慢順滑之緩衝效果 - 如在各端面距離3mm左右停止，其緩衝效果會很不良，請要注意 - 然而，緩衝環平行處(L尺寸)如要較長可以製造，請再詳細商談 -

Because the cushioning ring is processed by special throttle processing so that there are being with moved slowly & smoothly effectiveness if those stopped far from end about 3mm and will be formed illness since if want more longer cushioning ring (L) which must be consult us.

缸管內徑 cylinder bore		50 63		80 100		125		140		160		180		200		224 250	
活塞桿徑 rod dia		A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
前蓋端 cyl. head	緩衝長度(L) cushion length	—	35	40		45		50		50		55		65		75	
	平行處長度(e) parallel length	—	15	15	10	15	10	15	10	15	10	15	10	15	10	15	10
後蓋端 cap end	緩衝長度(L) cushion length	30		35		35		35		40		40		40		55	
	平行處長度(e) parallel length	10		10		10		10		10		10		10		10	



技術參數 Technical Data

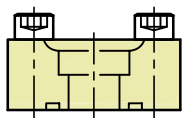
缸管內徑 Cylinder Bore mm	活塞桿徑 Rod Dia. mm	動作 Action	有效面積 Effective Area cm ²	出力 Output Power kgf				流量10L/分 之速度 Flow Rate at Speed 10L/min mm/sec	速度10mm/秒 之流量 Speed at Flow Rate 10mm/sec L/min
				70 kgf/cm ²	105 kgf/cm ²	140 kgf/cm ²	210 kgf/cm ²		
80		推力 Extend	50.3	3517	5275	7034	10550	33	3.0
	56	拉力 Retract	25.6	1794	2690	3587	5376	65	1.5
	45		34.3	2404	3606	4808	7203	49	2.1
100		推力 Extend	78.5	5495	8243	10990	16485	21	4.7
	70	拉力 Retract	40.0	2800	4200	5600	8400	41	2.4
	56		53.9	3772	5658	7544	11319	31	3.2
125		推力 Extend	122.7	8586	12879	17172	25767	14	7.4
	90	拉力 Retract	59.1	4135	6202	8270	12411	28	3.5
	70		84.3	5901	8852	11802	17703	20	5.1
140		推力 Extend	153.9	10770	16155	21540	32319	11	9.2
	100	拉力 Retract	75.4	5275	7913	10550	15834	22	4.5
	90		90.3	6321	9482	12642	18963	18	5.4
160		推力 Extend	201.0	14067	21101	28134	42210	8	12.1
	110	拉力 Retract	106.0	7420	11130	14840	22260	16	6.4
	100		122.5	8575	12863	17150	25725	14	7.4
180		推力 Extend	254.3	17804	26706	35608	53403	6.6	15.3
	125	拉力 Retract	131.7	9218	138267	18436	27657	13	7.9
	110		159.3	11151	16727	22302	33453	10	9.6
200		推力 Extend	314	21980	32970	43960	65940	5.3	18.8
	140	拉力 Retract	160.1	11210	16815	22420	33621	10	9.6
	125		191.3	13391	20087	26762	40173	8.7	11.5
220		推力 Extend	379.4	26558	39837	53116	79674	4.3	22.8
	160	拉力 Retract	178.4	12495	18743	24990	37465	9.3	10.7
	140		225.5	15785	23677	31570	47355	7.4	13.5
250		推力 Extend	490.6	34344	51516	68688	103026	3.4	29.4
	180	拉力 Retract	236.3	16540	24810	33080	49623	7.0	14.2
	160		289.6	20275	30412	40549	60824	5.8	17.4
280		推力 Extend	615.4	43078	64617	86156	129234	2.7	36.9
	200	拉力 Retract	301.4	21098	31647	42196	63294	5.5	18.1
	180		361.0	25270	37905	50540	75810	4.6	21.7
300		推力 Extend	706.5	49455	74182	98910	148365	2.4	42.4
	200	拉力 Retract	392.5	27475	41212	54950	82425	4.2	24.6
	180		452.2	31654	47481	63308	94962	3.7	27.1
320		推力 Extend	803.8	56266	84399	112532	168798	2.1	48.2
	220	拉力 Retract	423.9	29673	45095	59346	89019	3.9	25.4
	200		489.8	34286	51429	68572	102858	3.4	29.4

HC6

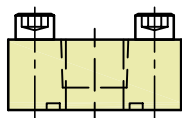
出入口油壓凸緣

Port Flange Kite

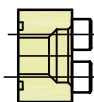
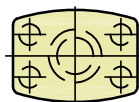
SSA



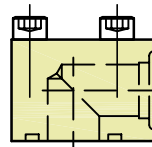
SSA-B



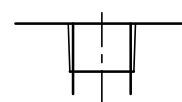
F5



LSA

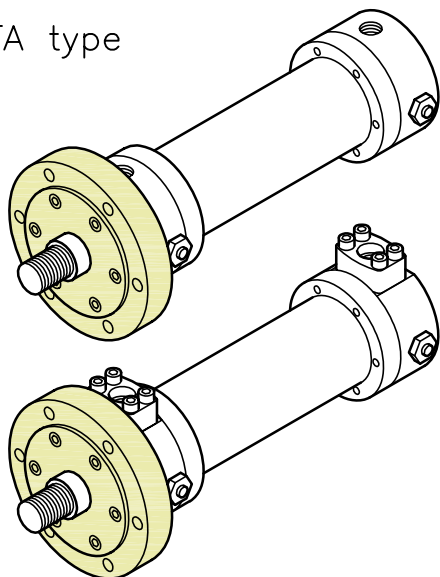


RC

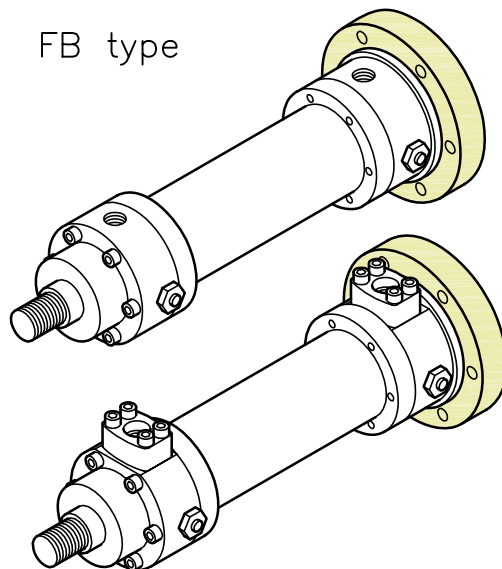


固定座形式 Mounting :

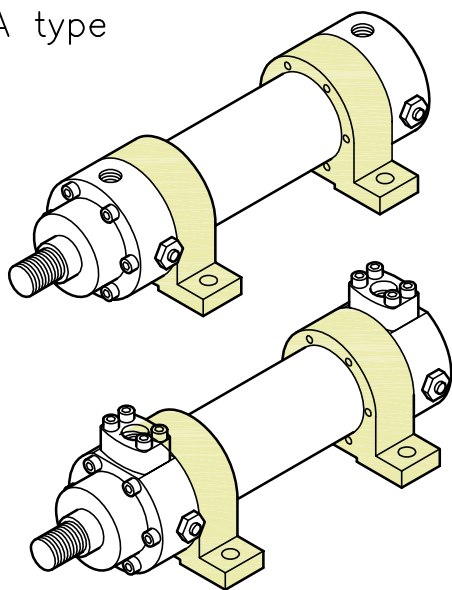
FA type



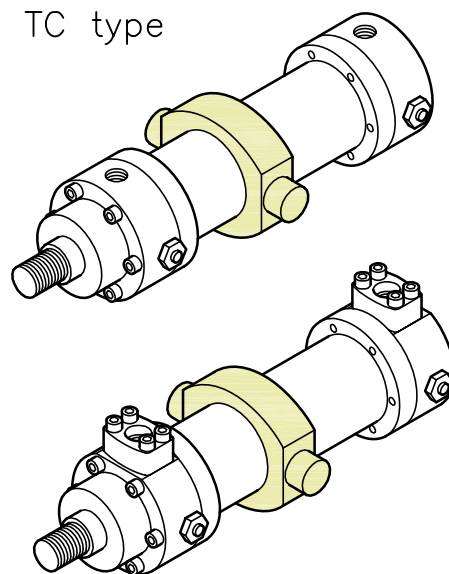
FB type



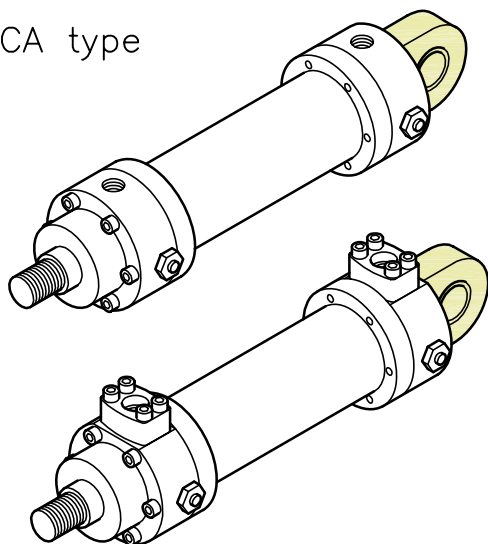
LA type



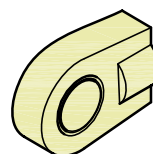
TC type



CA type

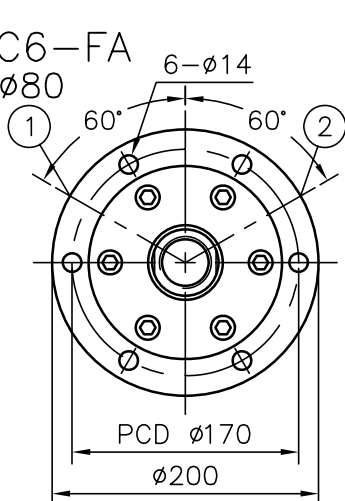


軸承接頭 Swivel clevis head

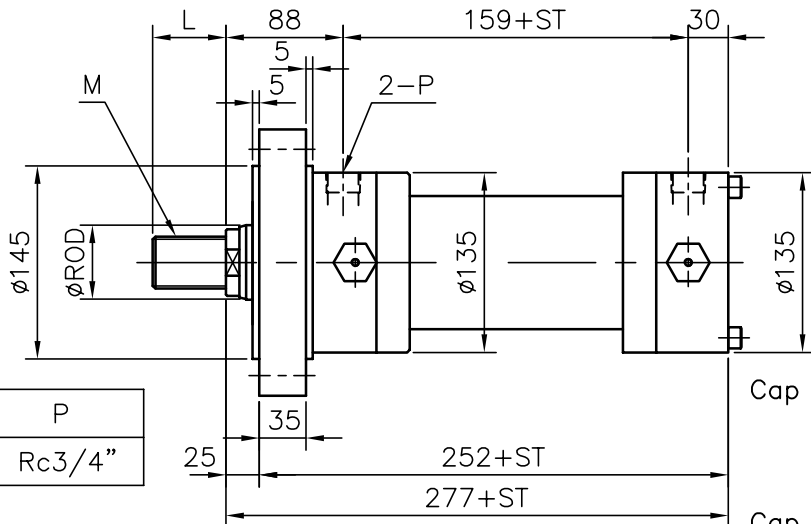


HC6-FA

Ø80



P
Rc3/4"

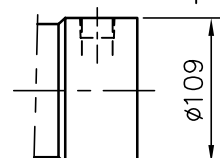


Cap screwed

Cap welded

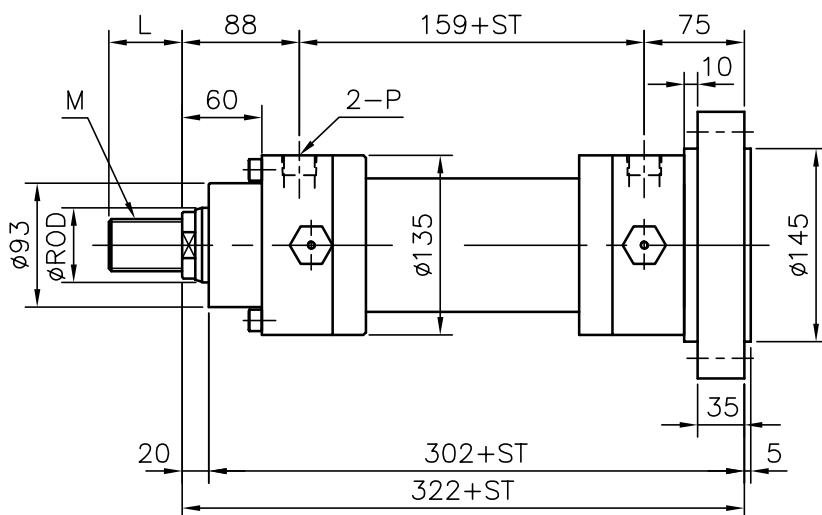
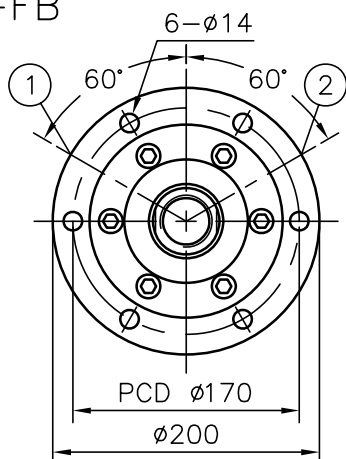
ROD	M		L	
	B	A	B	A
45	M35xP1.5	M39xP3.0	35	55
56				

- 1 緩衝器
Check valve
and bleeding
2 排氣孔
Throttl valve



HC6-FB

Ø80



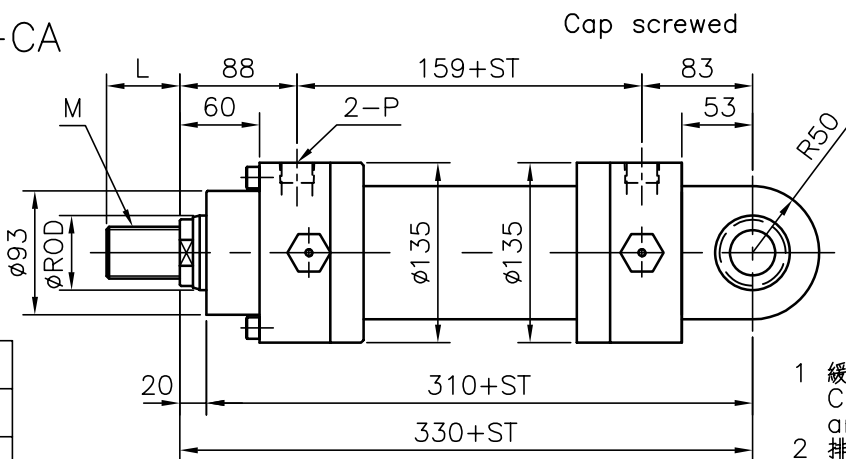
ROD	M		L	
	B	A	B	A
45	M35xP1.5	M39xP3.0	35	55
56				

P
Rc3/4"
F5-06-A

- 1 緩衝器
Check valve
and bleeding
2 排氣孔
Throttl valve

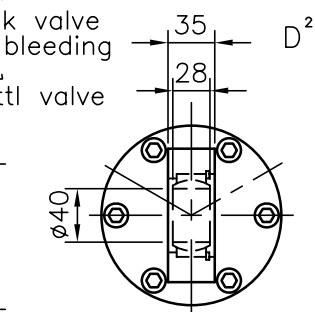
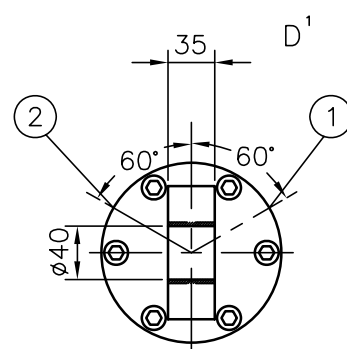
HC6-CA

Ø80



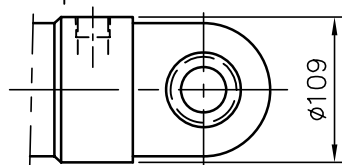
P
Rc3/4"
F5-06-A

- 1 緩衝器
Check valve
and bleeding
2 排氣孔
Throttl valve

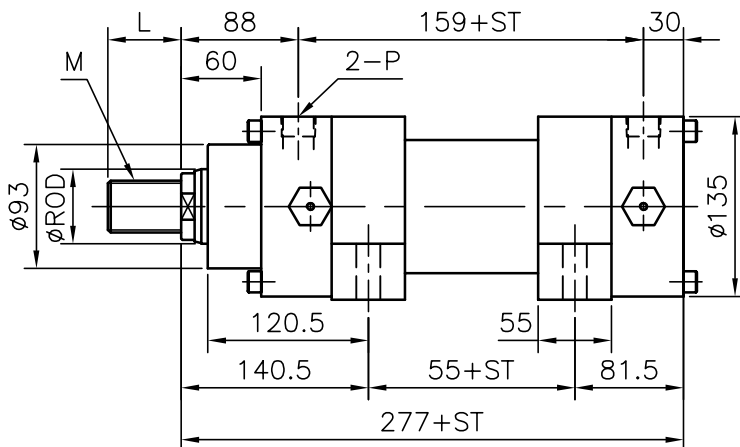
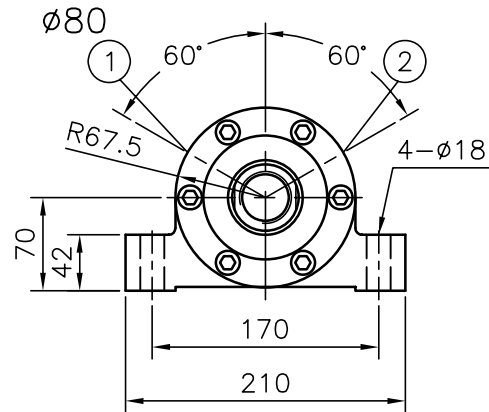


ROD	M		L	
	B	A	B	A
45	M35xP1.5	M39xP3.0	35	55
56				

Cap welded



HC6-LA

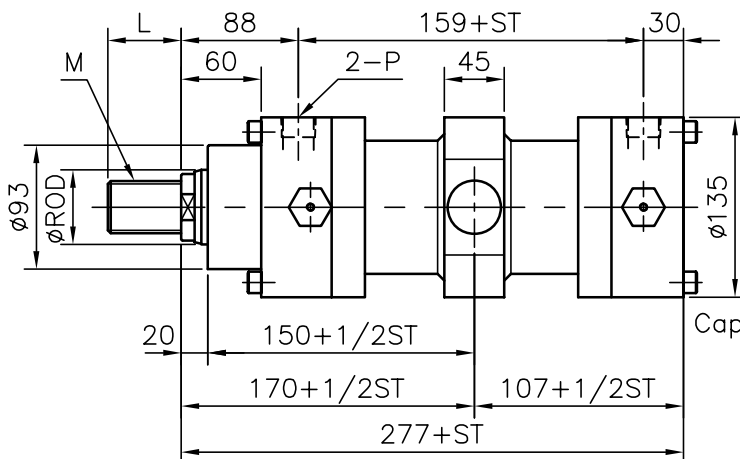
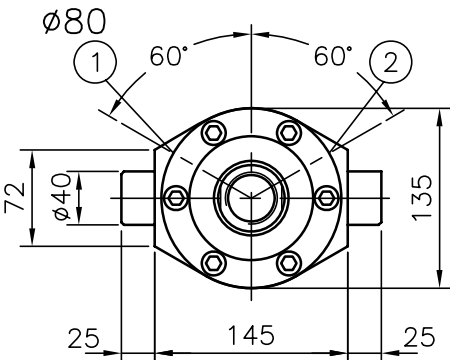


ROD	M		L	
	B	A	B	A
45	M35xP1.5	M39xP3.0	35	55
56				

P
Rc3/4"
F5-06-A

- 1 緩衝器
Check valve and bleeding
2 排氣孔
Throttling valve

HC6-TC



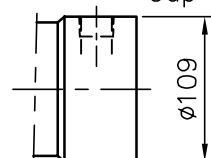
Cap screwed

Cap welded

ROD	M		L	
	B	A	B	A
45	M35xP1.5	M39xP3.0	35	55
56				

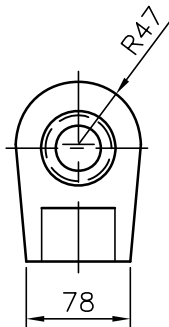
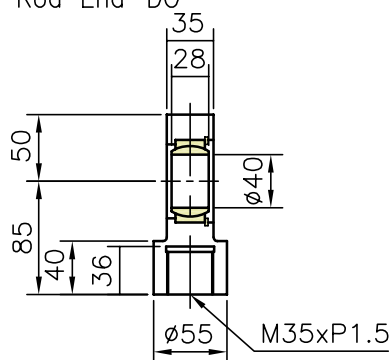
P
Rc3/4"
F5-06-A

- 1 緩衝器
Check valve and bleeding
2 排氣孔
Throttling valve

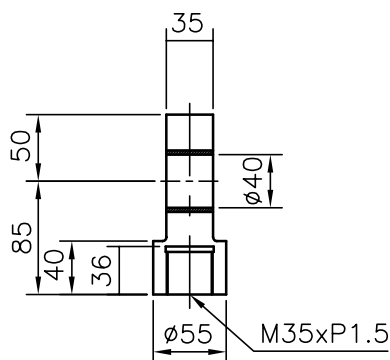


HC6-ø80 接頭 clevis head-D0

前端球面軸承接頭-D0
Spherical Rod End-D0



前端平行接頭-D0
Plain Rod End-D0



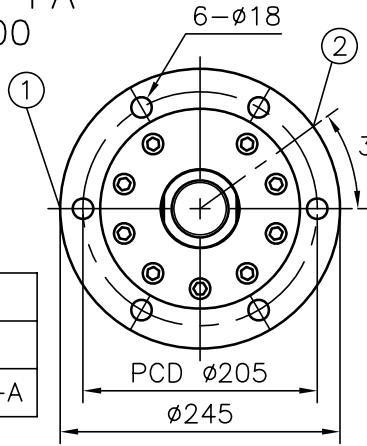
油壓缸大概重量計算 Estimated weight of hyd.

EX. : FA , ST=200mm

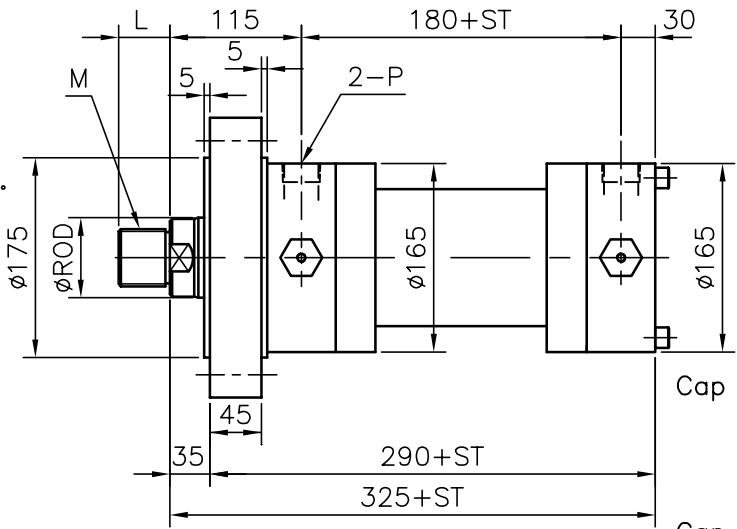
$$\begin{aligned} \text{weight} &= W1 + (W2 * ST) \\ &= 30.9 + (4.1 * 2) \\ &= 39.1 \text{ kg} \end{aligned}$$

	FA	FB	TC	LA	CA
W1 (kg)	30.9	33.1	27.1	31.38	26.23
W2 (kg/100mm)	ø56=4.1		ø45=3.4		

HC6-FA ø100



P
Rc 1"
F5-08-A

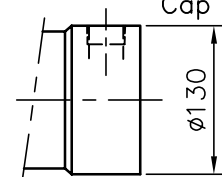


Cap screwed

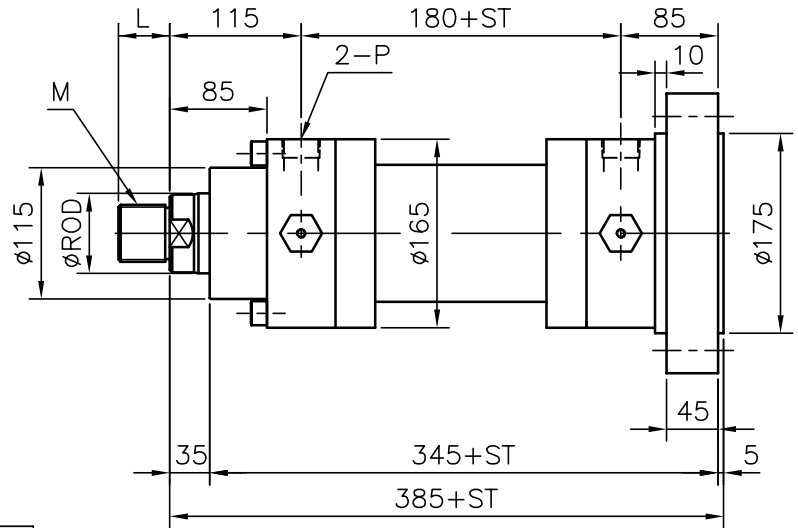
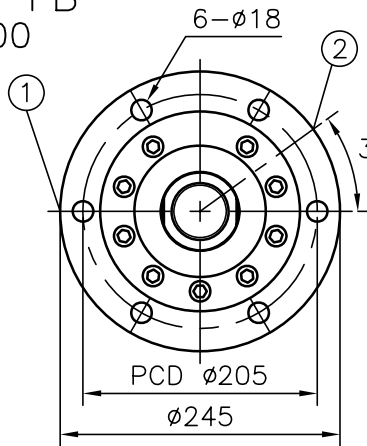
Cap welded

ROD	M		L	
	B	A	B	A
56	M45xP1.5	M50xP3.0	45	75
70				

- 1 緩衝器
Check valve
and bleeding
2 排氣孔
Throttl valve



HC6-FB ø100

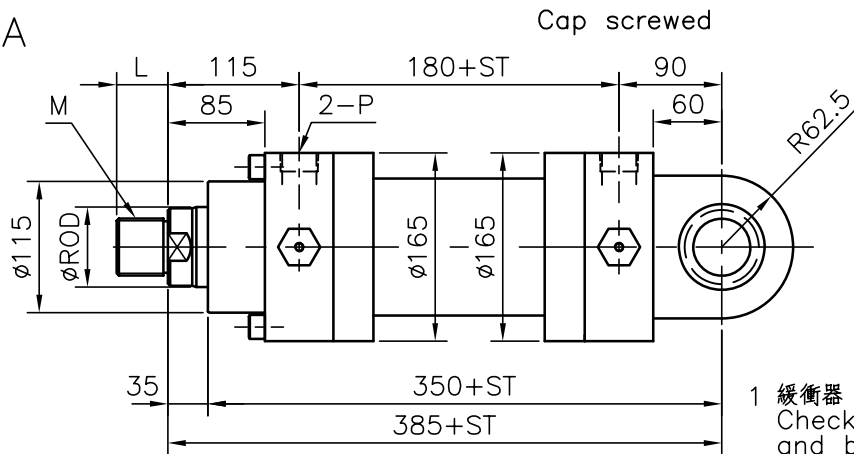


ROD	M		L	
	B	A	B	A
56	M45xP1.5	M50xP3.0	45	75
70				

P
Rc 1"
F5-08-A

- 1 緩衝器
Check valve
and bleeding
2 排氣孔
Throttl valve

HC6-CA ø100

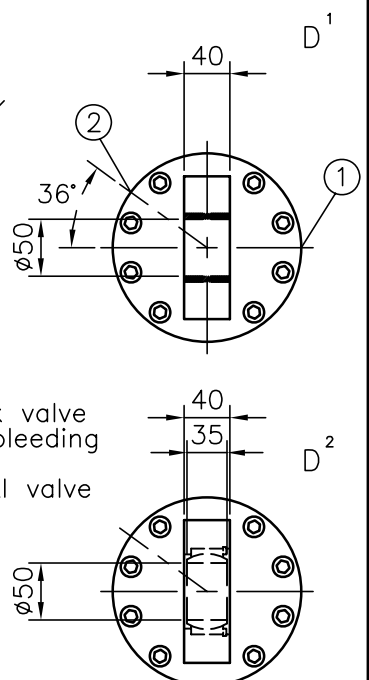
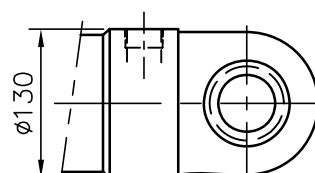


P
Rc 1"
F5-08-A

- 1 緩衝器
Check valve
and bleeding
2 排氣孔
Throttl valve

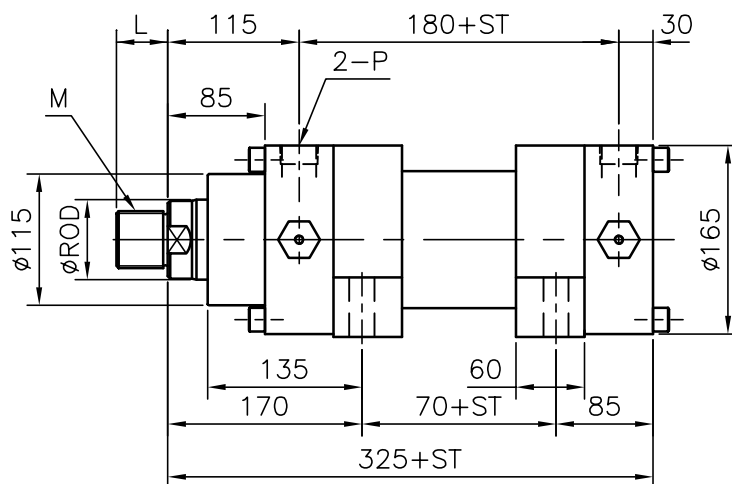
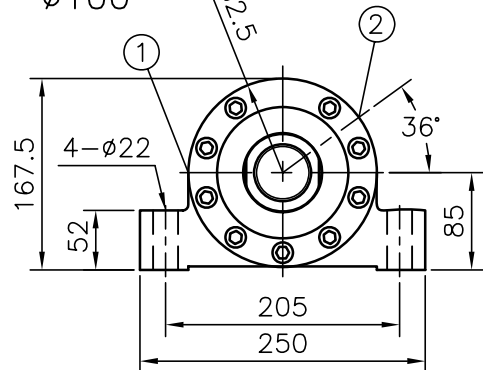
Cap welded

ROD	M		L	
	B	A	B	A
56	M45xP1.5	M50xP3.0	45	75
70				



HC6-LA

ø100



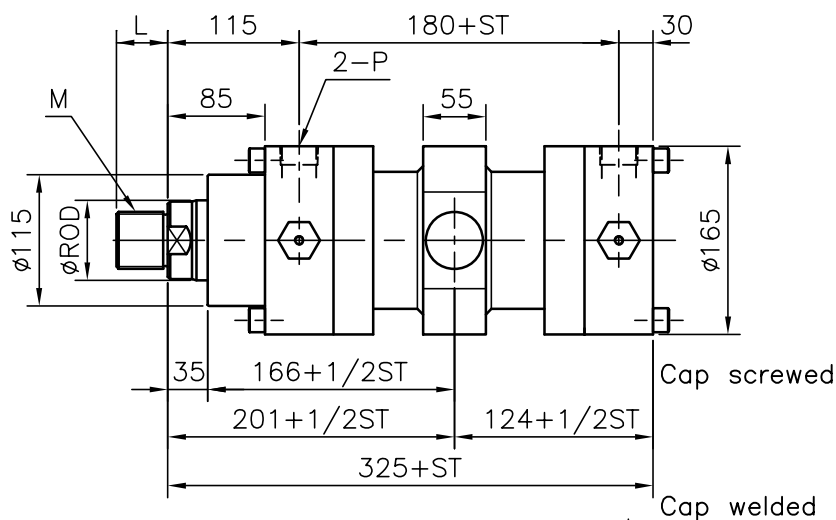
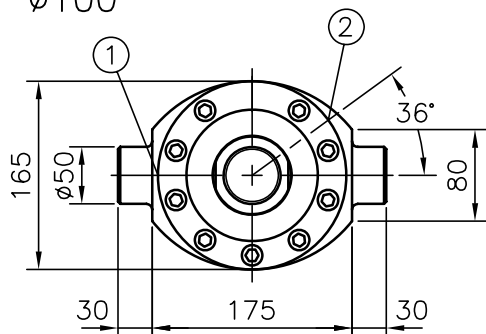
ROD	M		L	
	B	A	B	A
56	M45xP1.5	M50xP3.0	45	75
70				

P
Rc 1"
F5-08-A

- 1 緩衝器
Check valve and bleeding
2 排氣孔
Throttl valve

HC6-TC

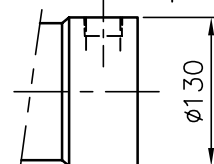
ø100



ROD	M		L	
	B	A	B	A
56	M45xP1.5	M50xP3.0	45	75
70				

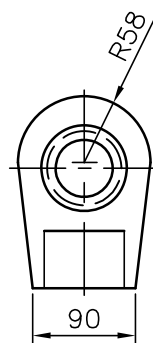
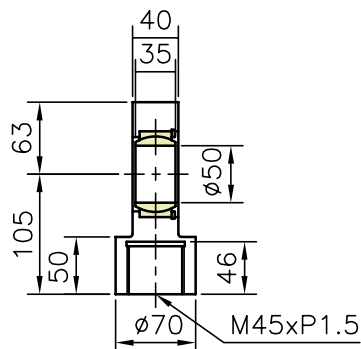
P
Rc 1"
F5-08-A

- 1 緩衝器
Check valve and bleeding
2 排氣孔
Throttl valve

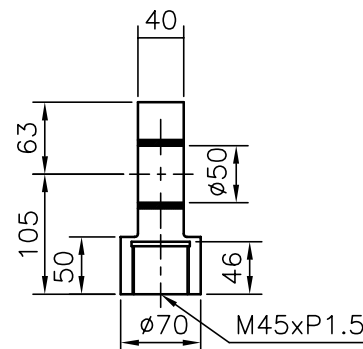


HC6-ø100 接頭 clevis head-D0

前端球面軸承接頭-D0
Spherical Rod End-D0



前端平行接頭-D0
Plain Rod End-D0



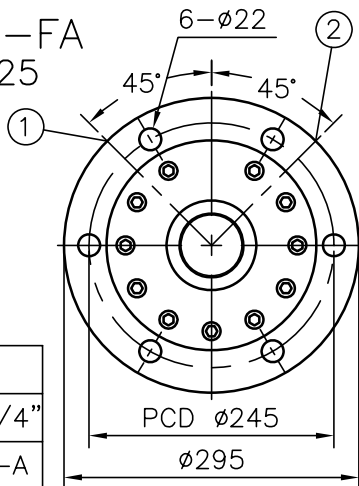
油壓缸大概重量計算 Estimated weight of hyd.

EX. : FA , ST=200mm

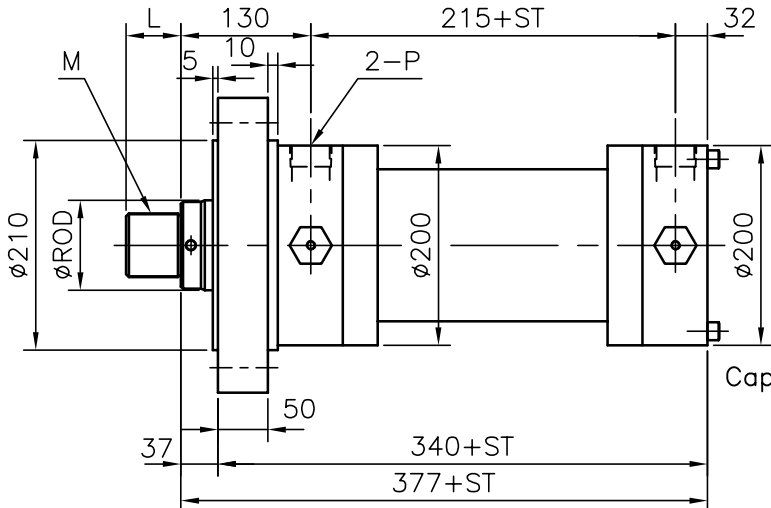
$$\begin{aligned} \text{weight} &= W1 + (W2 * ST) \\ &= 53.9 + (5.4 * 2) \\ &= 64.7 \text{ kg} \end{aligned}$$

	FA	FB	TC	LA	CA
W1 (kg)	53.9	58	46.7	51.7	43.6
W2 (kg/100mm)	ø70=5.4		ø56=4.6		

HC6-FA
ø125



P
Rc1-1/4"
F5-10-A

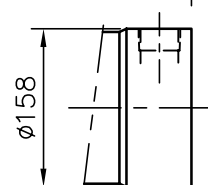


Cap screwed

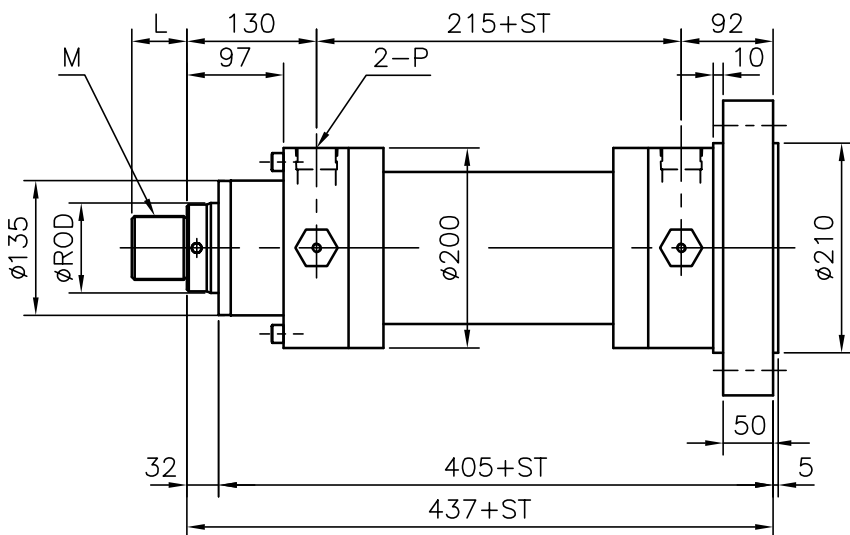
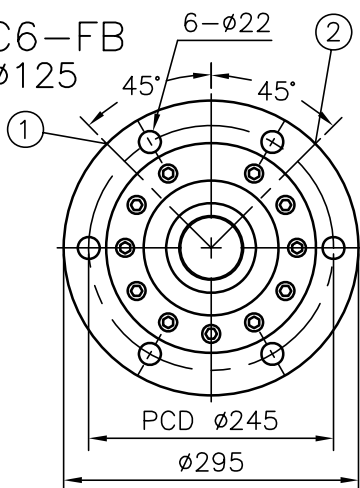
Cap welded

ROD	M		L	
	B	A	B	A
70	M58xP1.5	M64xP3.0	58	95
90				

1 緩衝器
Check valve
and bleeding
2 排氣孔
Thrott valve



HC6-FB
ø125

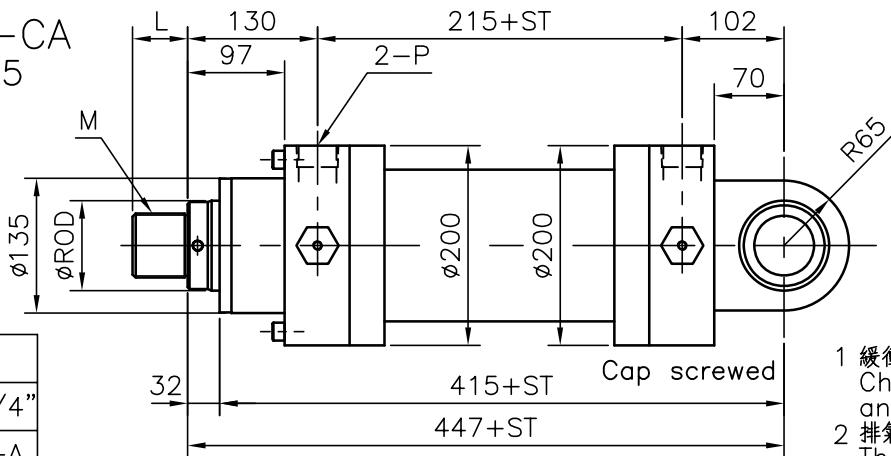


ROD	M		L	
	B	A	B	A
70	M58xP1.5	M64xP3.0	58	95
90				

P
Rc1-1/4"
F5-10-A

1 緩衝器
Check valve
and bleeding
2 排氣孔
Thrott valve

HC6-CA
ø125



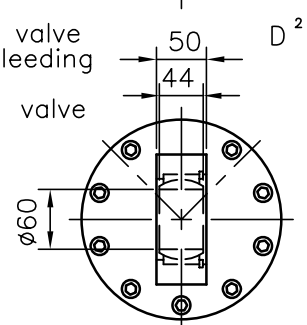
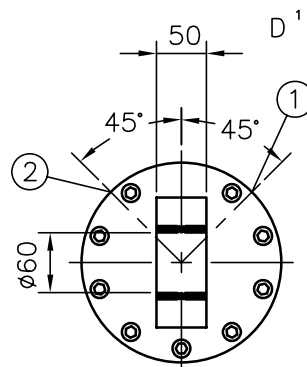
Cap screwed

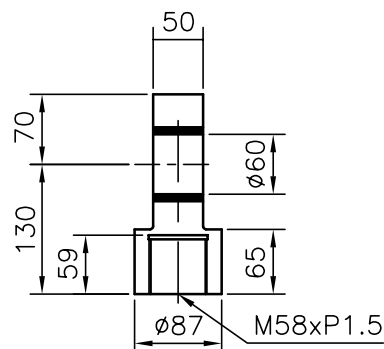
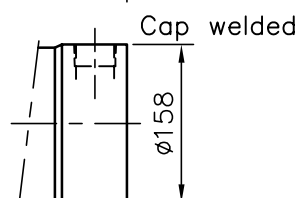
Cap welded

P
Rc1-1/4"
F5-10-A

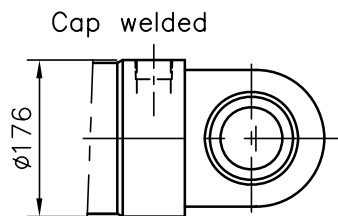
ROD	M		L	
	B	A	B	A
70	M58xP1.5	M64xP3.0	58	95
90				

1 緩衝器
Check valve
and bleeding
2 排氣孔
Thrott valve



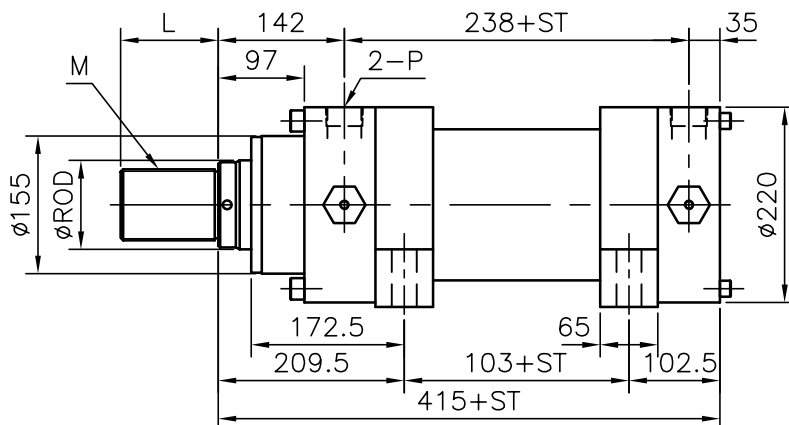
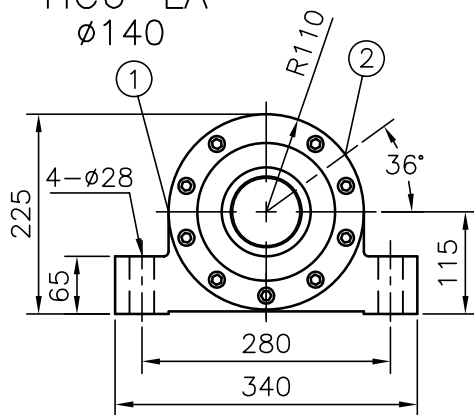


	FA	FB	TC	LA	CA
W1 (kg)	90.2	97.5	78.8	85.5	74.7
W2 (kg/100mm)	ø90=9.5		ø70=7.6		



HC6-LA

ø140



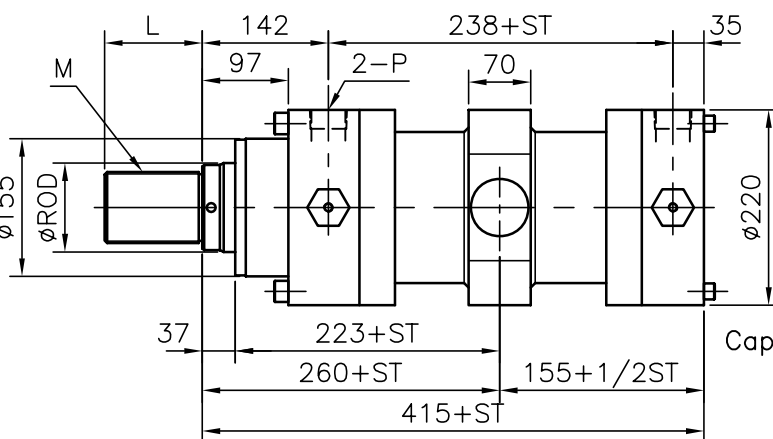
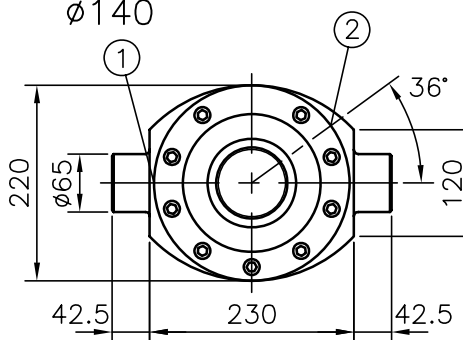
ROD	M		L	
	B	A	B	A
90	M65xP1.5	M80xP3.0	65	110
100				

P
Rc1-1/4"
F5-10-A

1 緩衝器
Check valve
and bleeding
2 排氣孔
Throttl valve

HC6-TC

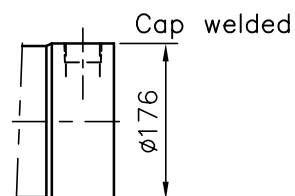
ø140



ROD	M		L	
	B	A	B	A
90	M65xP1.5	M80xP3.0	65	110
100				

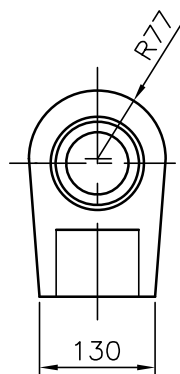
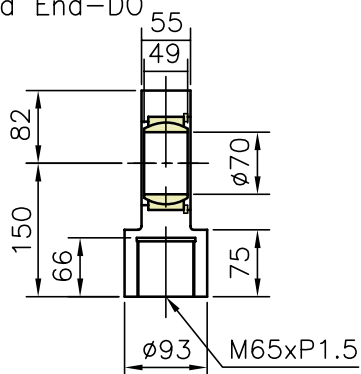
P
Rc1-1/4"
F5-10-A

1 緩衝器
Check valve
and bleeding
2 排氣孔
Throttl valve



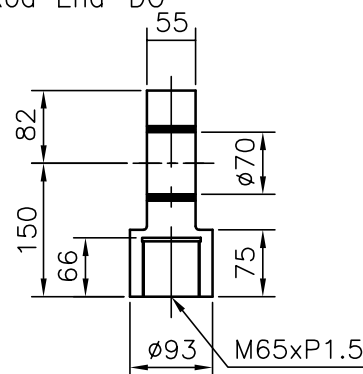
HC6-ø140 接頭 clevis head-D0

前端球面軸承接頭-D0
Spherical Rod End-D0



前端平行接頭-D0

Plain Rod End-D0



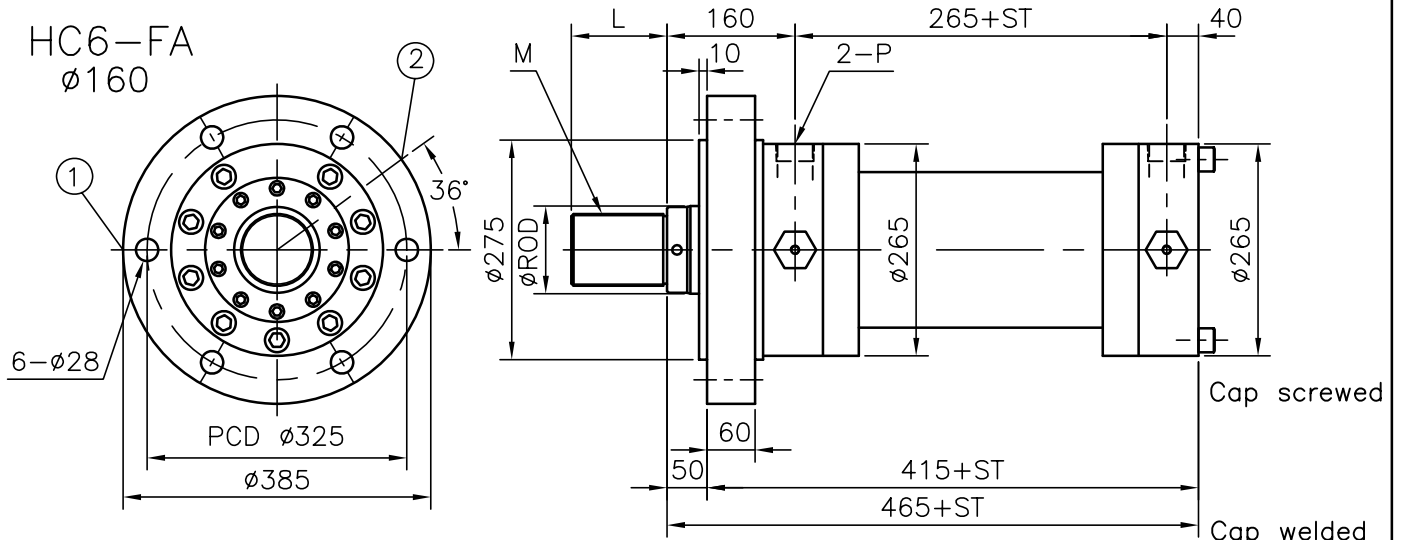
油壓缸大概重量計算 Estimated weight of hyd.

EX. : FA , ST=200mm

$$\begin{aligned} \text{weight} &= W1 + (W2 * ST) \\ &= 117.4 + (11.8 * 2) \\ &= 141 \text{ kg} \end{aligned}$$

	FA	FB	TC	LA	CA
W1 (kg)	117.4	128.1	112.6	113.5	103.2
W2 (kg/100mm)	ø100=11.8		ø90=10.7		

HC6-FA $\phi 160$

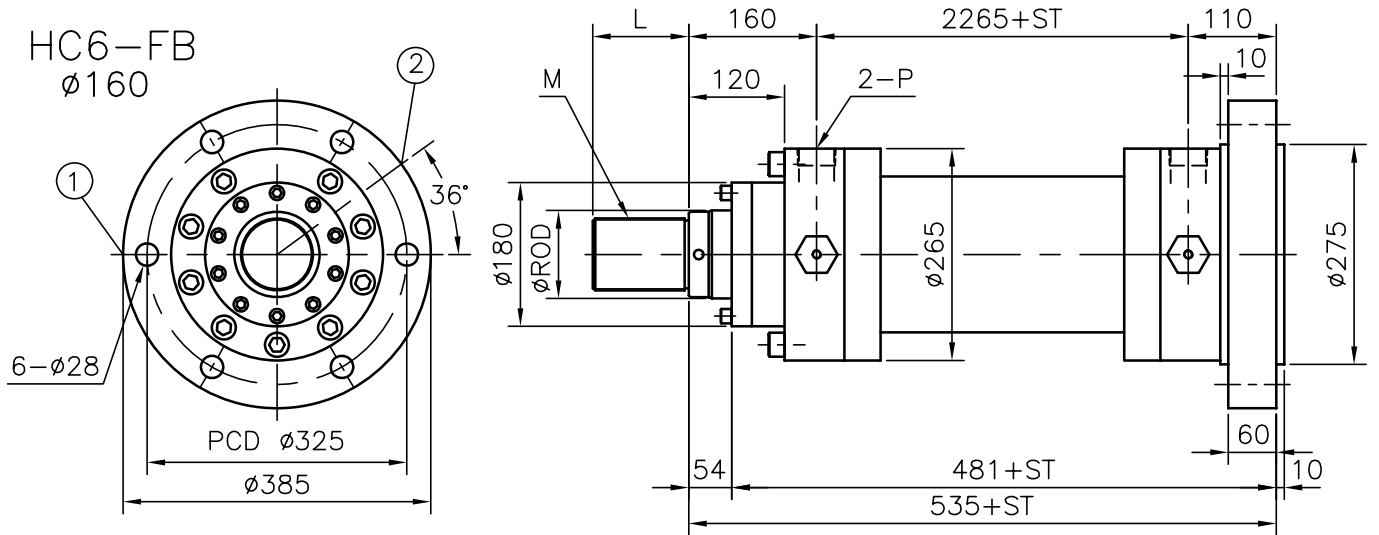


ROD	M		L	
	B	A	B	A
100	M80xP2.0	M90xP3.0	80	120
110				

P
Rc1-1/2"
F5-12-A

1 緩衝器
 Check valve
 and bleeding
 2 排氣孔
 Throttl valve

HC6-FB $\phi 160$

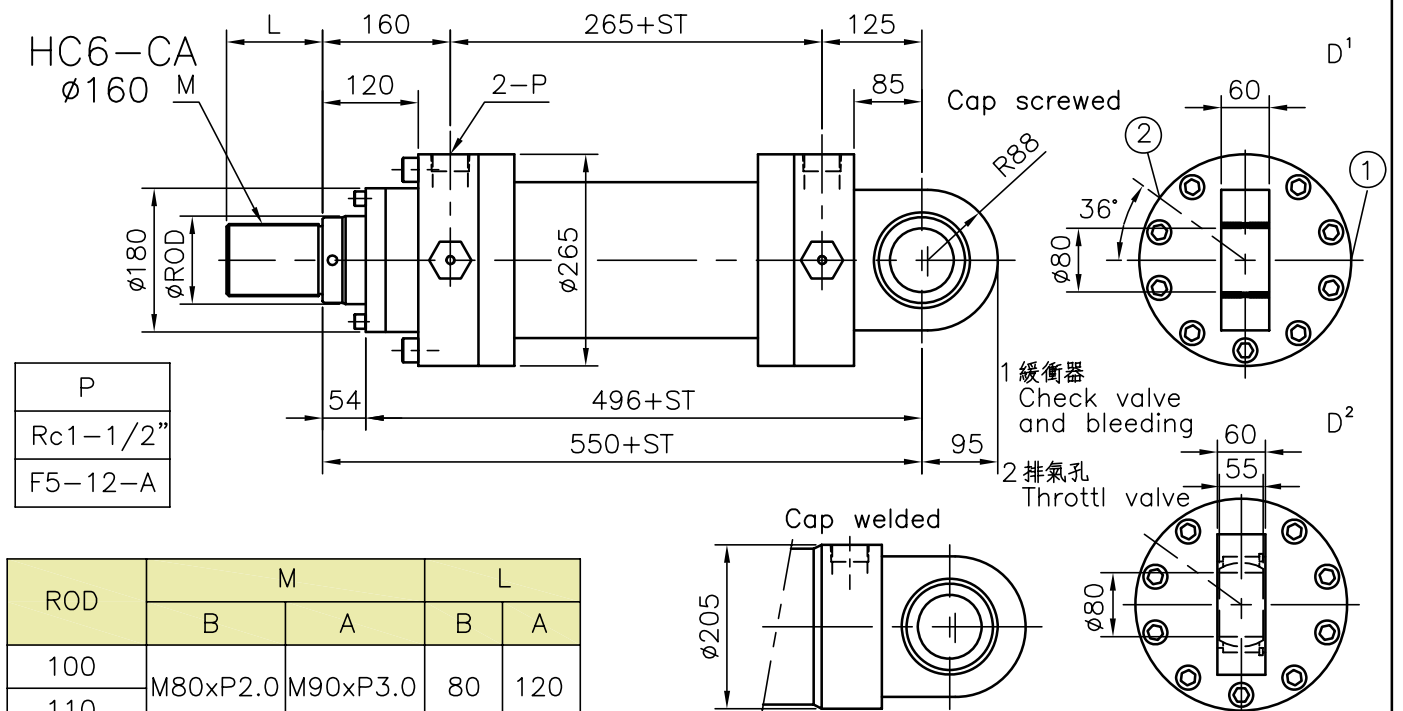


ROD	M		L	
	B	A	B	A
100	M80xP2.0	M90xP3.0	80	120
110				

P
Rc1-1/2"
F5-12-A

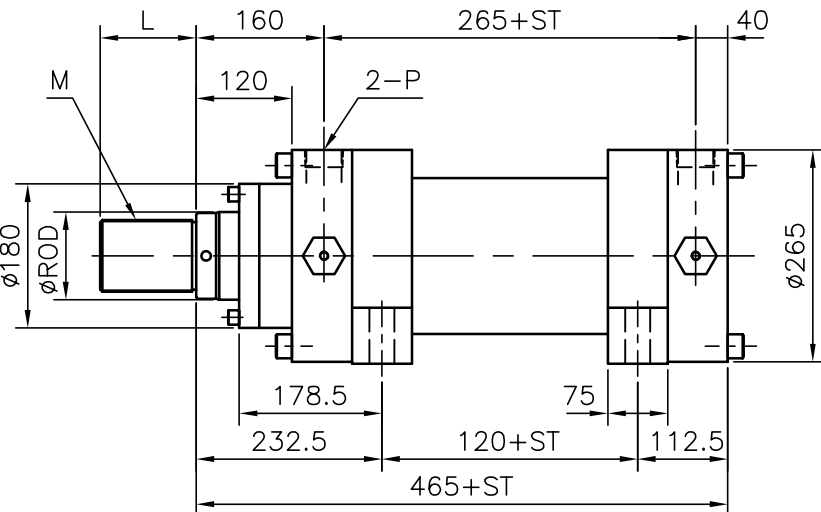
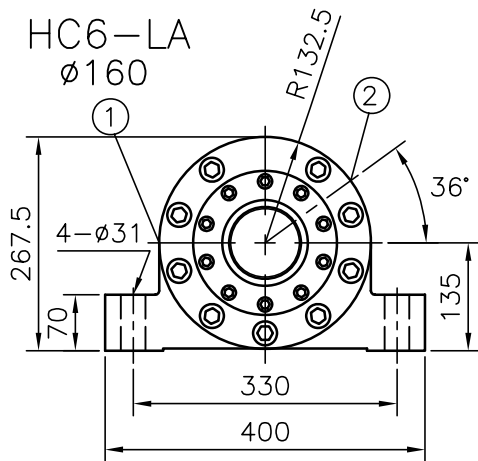
1 緩衝器
 Check valve
 and bleeding
 2 排氣孔
 Throttl valve

HC6-CA $\phi 160$



P
Rc1-1/2"
F5-12-A

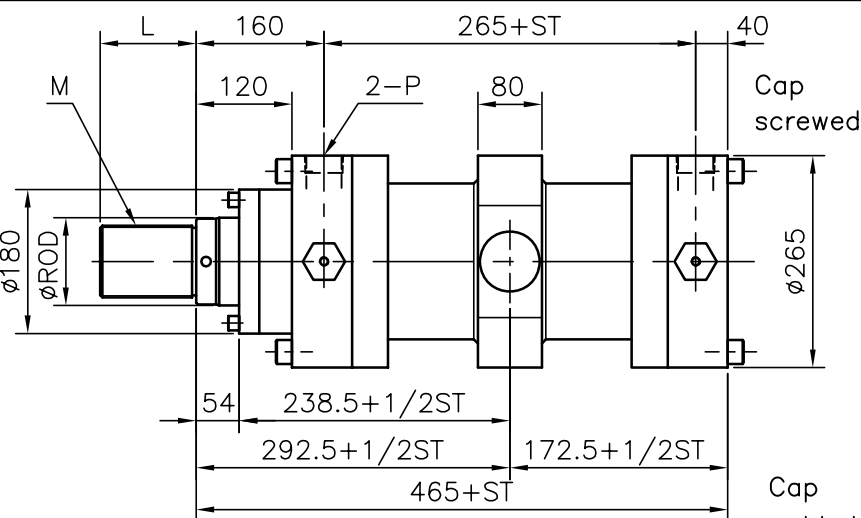
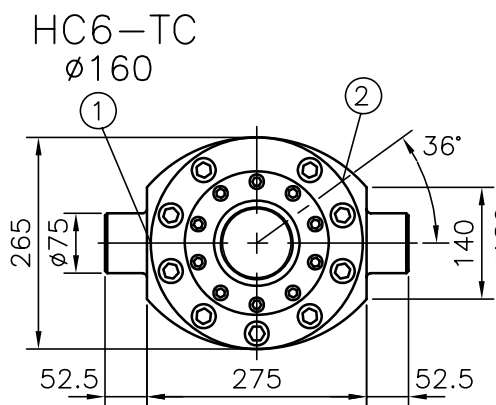
ROD	M		L	
	B	A	B	A
100	M80xP2.0	M90xP3.0	80	120
110				



ROD	M		L	
	B	A	B	A
100	M80xP2.0	M90xP3.0	80	120
110				

P
Rc1-1/2"
F5-12-A

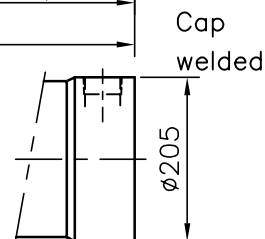
1 緩衝器
Check valve and bleeding
2 排氣孔
Throttling valve



ROD	M		L	
	B	A	B	A
100	M80xP2.0	M90xP3.0	80	120
110				

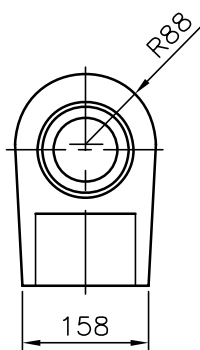
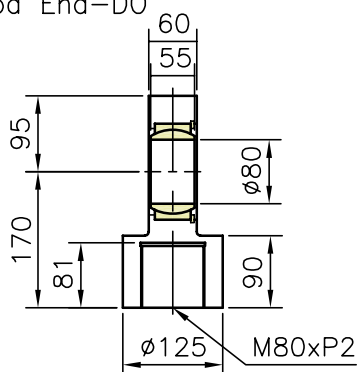
P
Rc1-1/2"
F5-12-A

1 緩衝器
Check valve and bleeding
2 排氣孔
Throttling valve

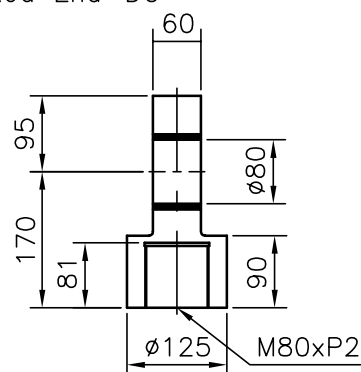


HC6-ø160 接頭 clevis head-D0

前端球面軸承接頭-D0
Spherical Rod End-D0



前端平行接頭-D0
Plain Rod End-D0



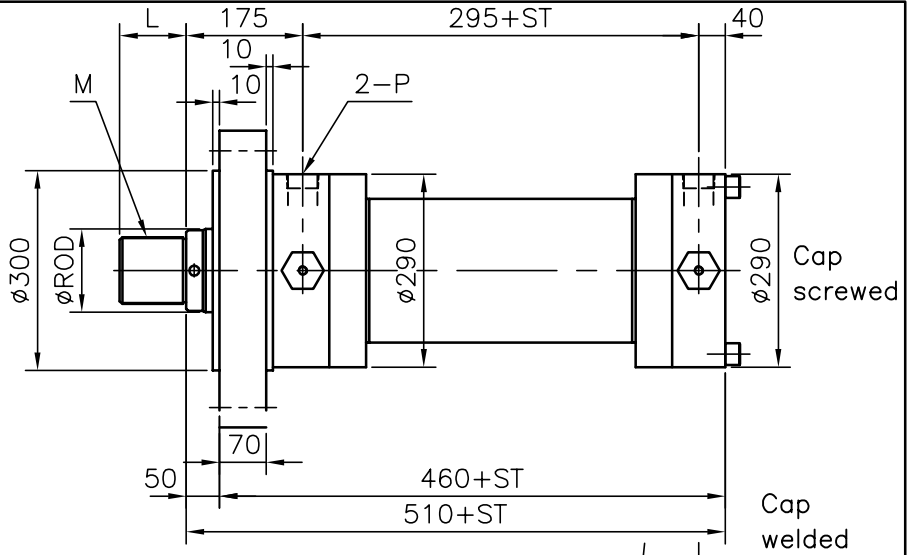
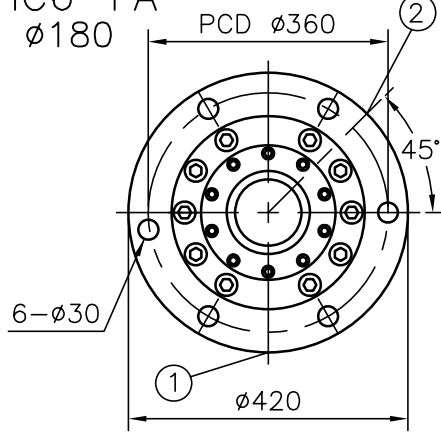
油壓缸大概重量計算 Estimated weight of hyd.

EX. : FA , ST=200mm

$$\begin{aligned} \text{weight} &= W1 + (W2 * ST) \\ &= 189 + (15.1 * 2) \\ &= 219.2 \text{ kg} \end{aligned}$$

	FA	FB	TC	LA	CA
W1 (kg)	189	202.5	169.6	175.2	156.6
W2 (kg/100mm)	ø110=15.1		ø100=13.8		

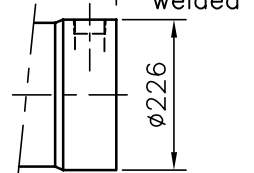
HC6-FA ø180



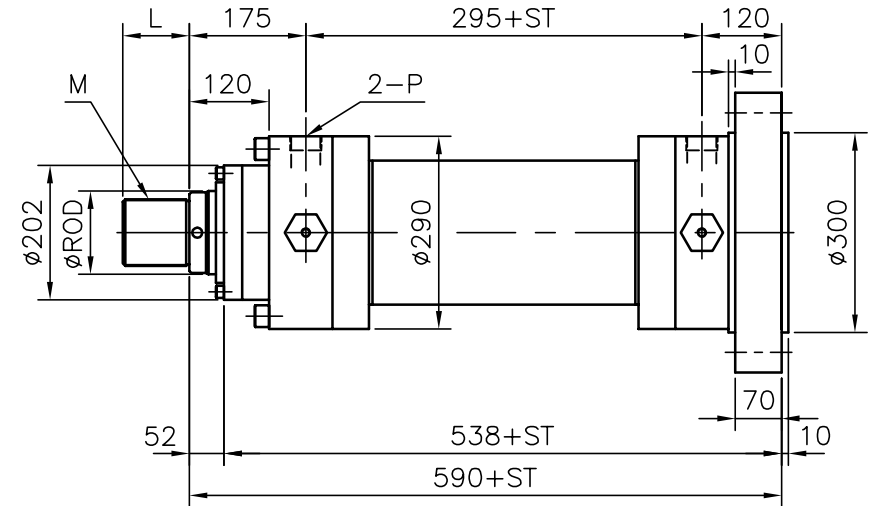
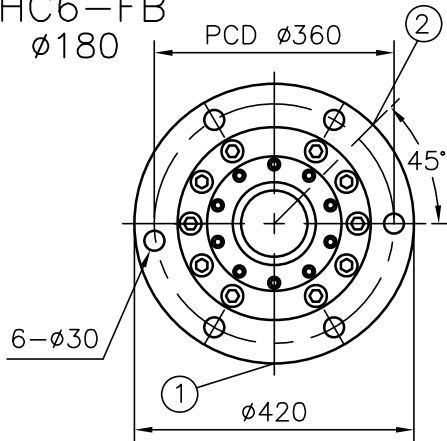
ROD	M		L	
	B	A	B	A
110	M100xP2.0	M100xP3.0	100	140
125				

P
Rc1-1/2"
F5-12-A

1緩衝器
Check valve
and bleeding
2排氣孔
Thrott valve



HC6-FB ø180

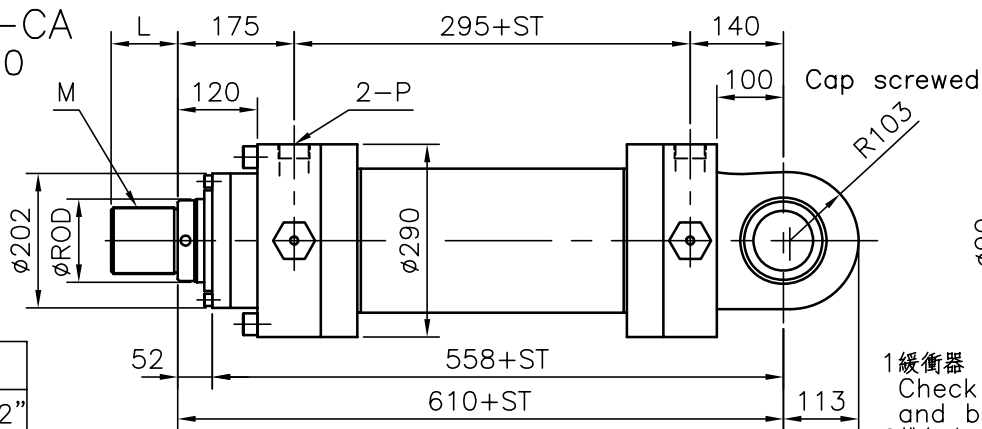


ROD	M		L	
	B	A	B	A
110	M100xP2.0	M100xP3.0	100	140
125				

P
Rc1-1/2"
F5-12-A

1緩衝器
Check valve
and bleeding
2排氣孔
Thrott valve

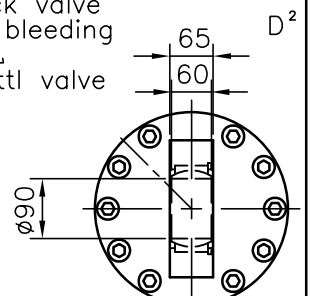
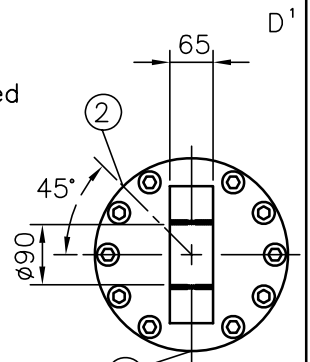
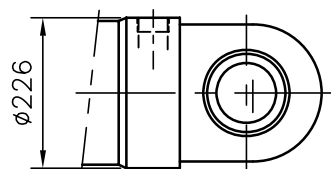
HC6-CA ø180



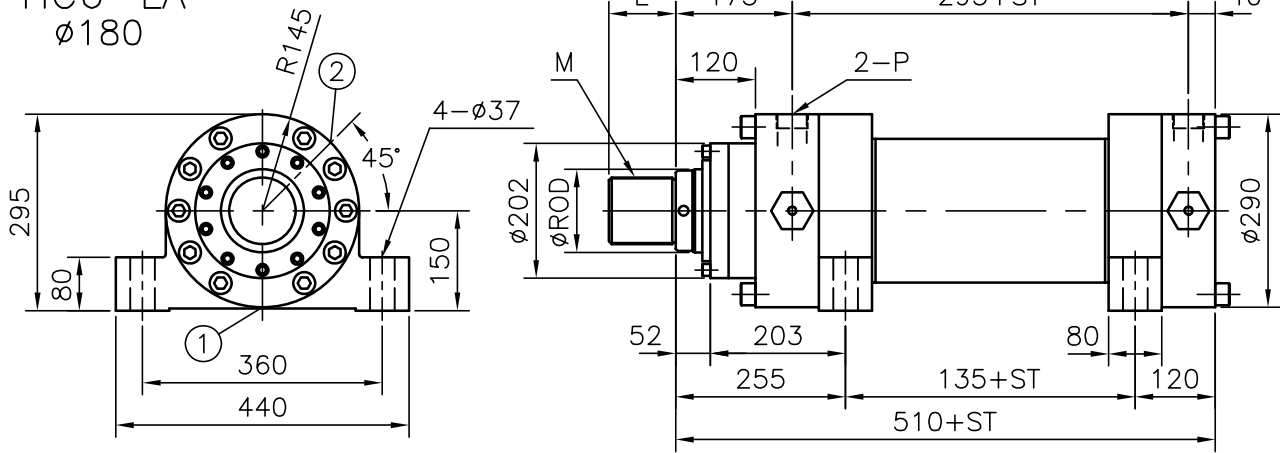
P
Rc1-1/2"
F5-12-A

1緩衝器
Check valve
and bleeding
2排氣孔
Thrott valve

ROD	M		L	
	B	A	B	A
110	M100xP2.0	M100xP3.0	100	140
125				



HC6-LA ø180

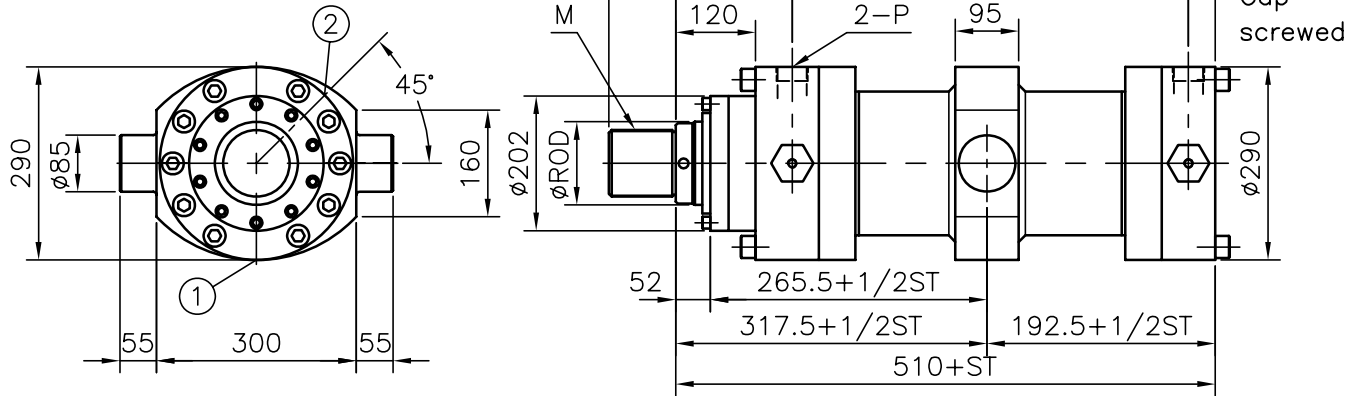


ROD	M		L	
	B	A	B	A
110	M100xP2.0	M100xP3.0	100	140
125				

P
Rc1-1/2"
F5-12-A

1緩衝器
Check valve
and bleeding
2排氣孔
Thrott valve

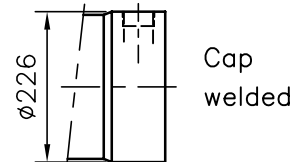
HC6-TC ø180



ROD	M		L	
	B	A	B	A
110	M100xP2.0	M100xP3.0	100	140
125				

P
Rc1-1/2"
F5-12-A

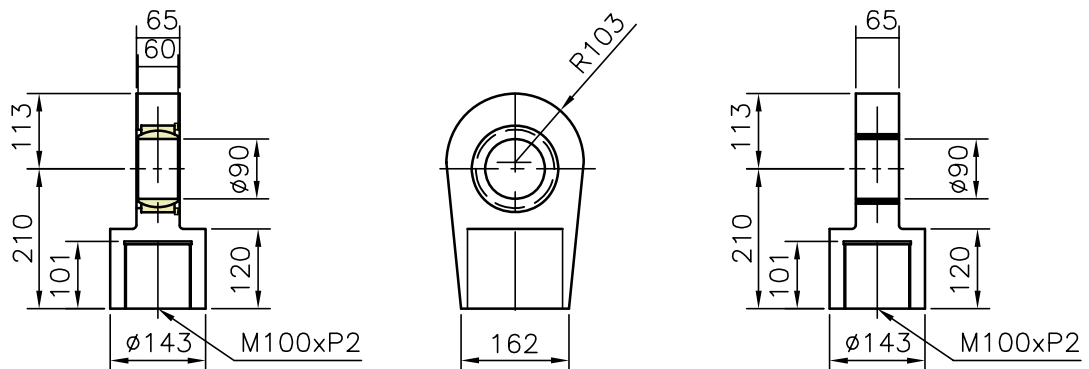
1緩衝器
Check valve
and bleeding
2排氣孔
Thrott valve



HC6-ø180 接頭 clevis head-DO

前端球面軸承接頭- DO
Spherical Rod End-DO

前端平行接頭- DO
Plain Rod End-DO

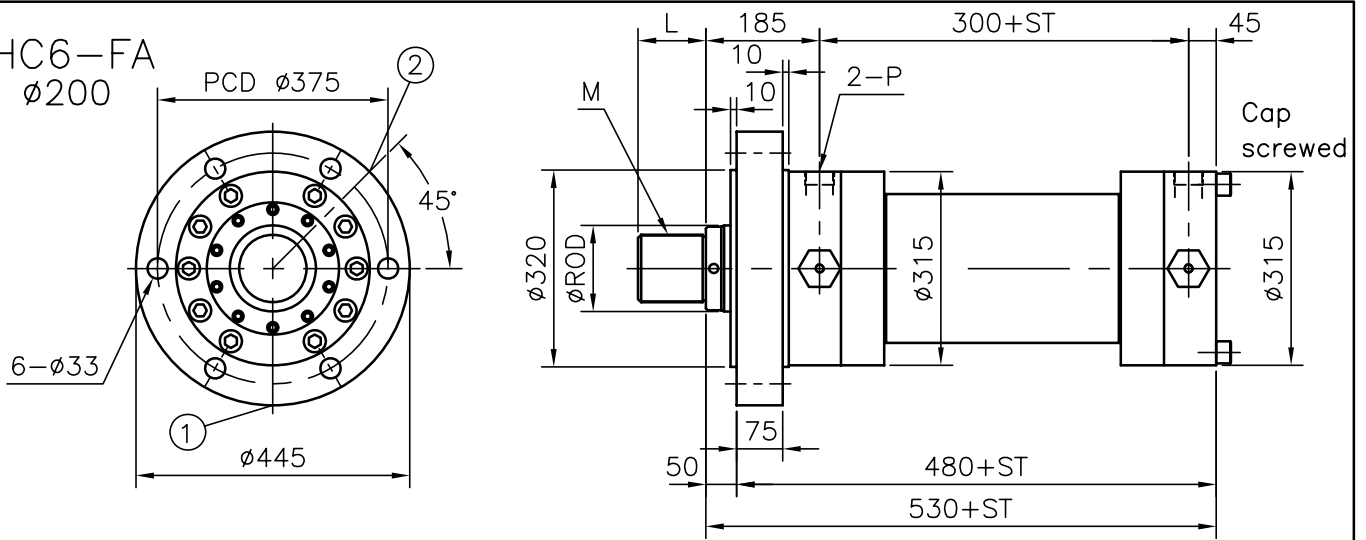


油壓缸大概重量計算 Estimated weight of hyd.

EX. : FA , ST=200mm
weight= W1 + (W2 * ST)
= 260 + (18.4 * 2)
= 296.8 kg

	FA	FB	TC	LA	CA
W1 (kg)	260	280.2	235.1	243.6	217.5
W2 (kg/100mm)	ø125=18.4		ø110=16.2		

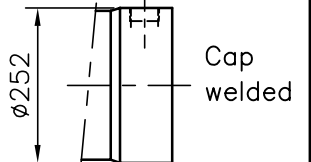
HC6-FA
ø200



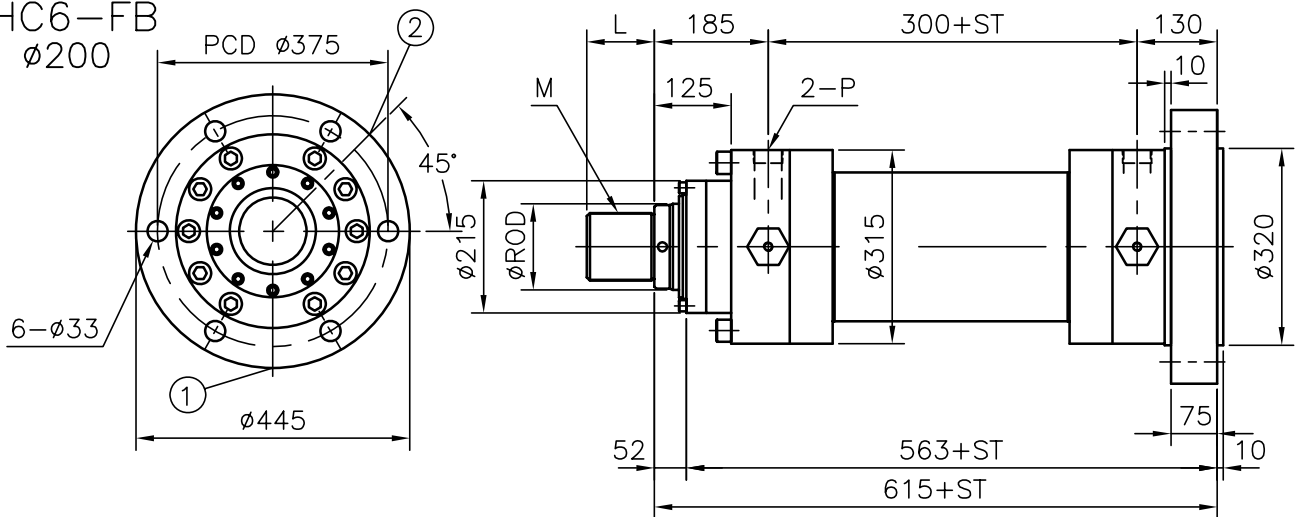
ROD	M		L	
	B	A	B	A
125	M110xP2.0	M110xP4.0	110	150
140				

P
Rc1-1/2"
F5-12-A

1緩衝器
Check valve
and bleeding
2排氣孔
Throttl valve



HC6-FB
ø200

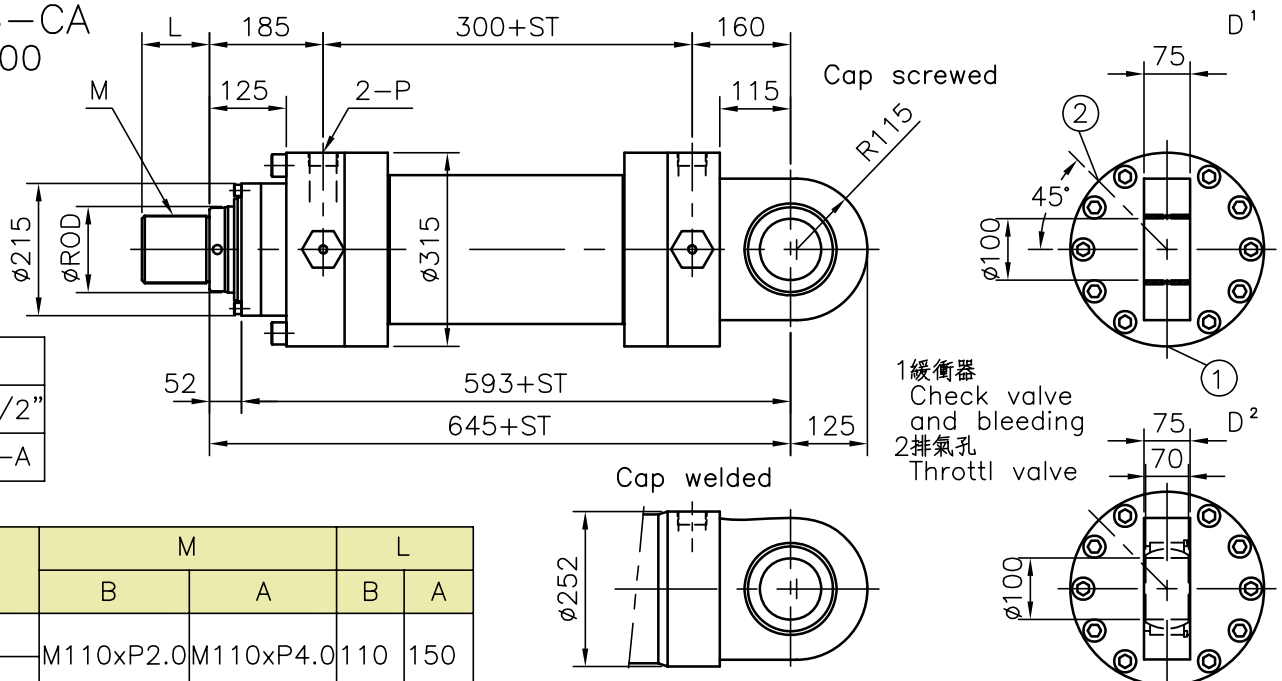


ROD	M		L	
	B	A	B	A
125	M110xP2.0	M110xP4.0	110	150
140				

P
Rc1-1/2"
F5-12-A

1緩衝器
Check valve
and bleeding
2排氣孔
Throttl valve

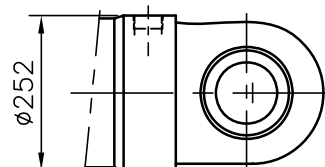
HC6-CA
ø200



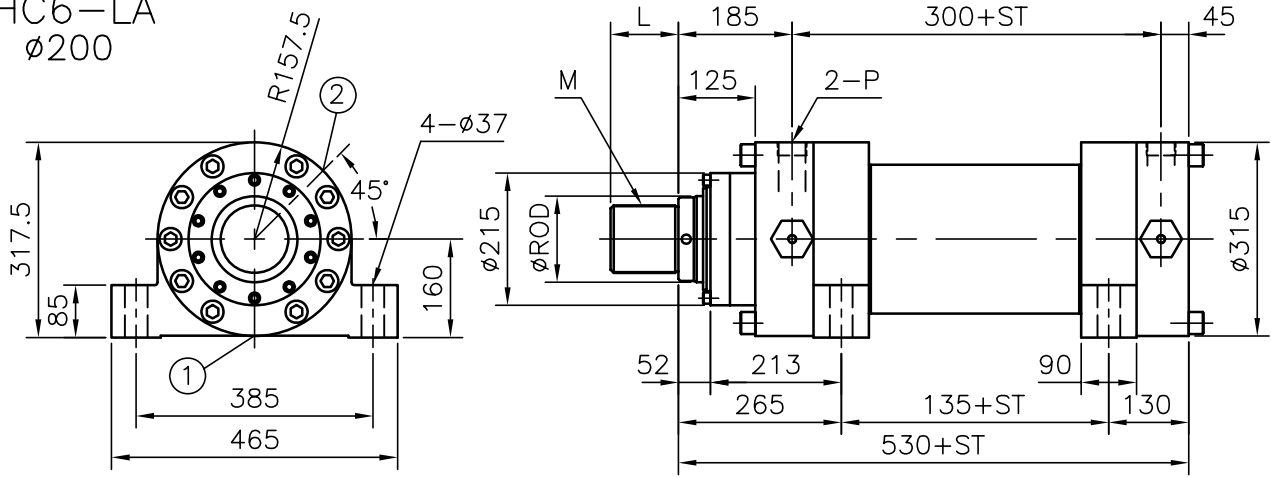
P
Rc1-1/2"
F5-12-A

ROD	M		L	
	B	A	B	A
125	M110xP2.0	M110xP4.0	110	150
140				

1緩衝器
Check valve
and bleeding
2排氣孔
Throttl valve



HC6-LA ø200

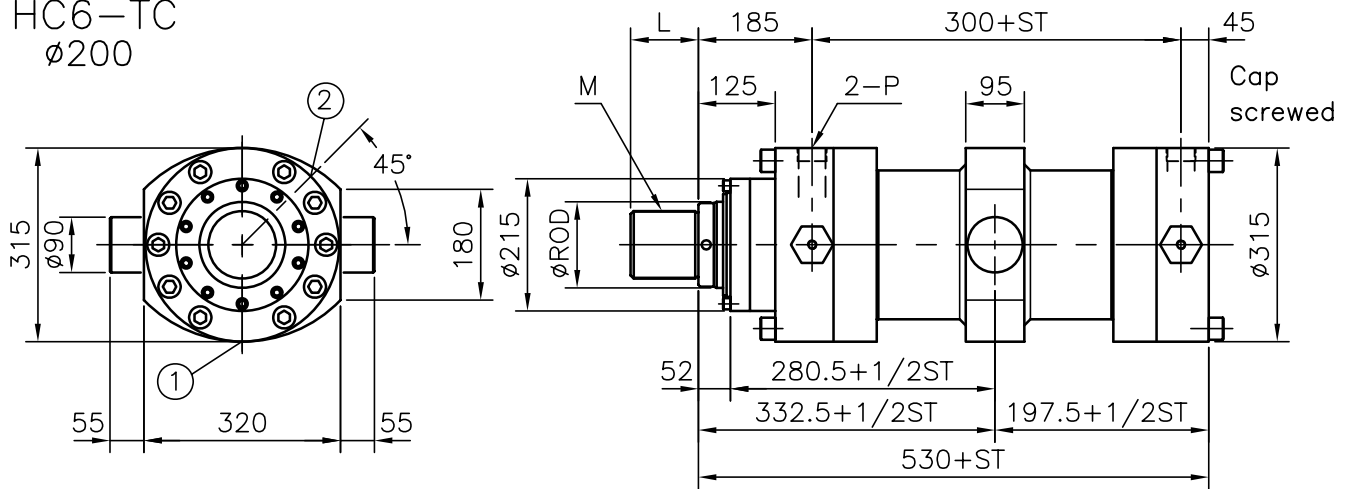


ROD	M		L	
	B	A	B	A
125	M110xP2.0	M110xP4.0	110	150
140				

P
Rc1-1/2"
F5-12-A

1緩衝器
Check valve
and bleeding
2排氣孔
Thrott valve

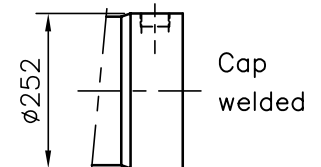
HC6-TC ø200



ROD	M		L	
	B	A	B	A
125	M110xP2.0	M110xP4.0	110	150
140				

P
Rc1-1/2"
F5-12-A

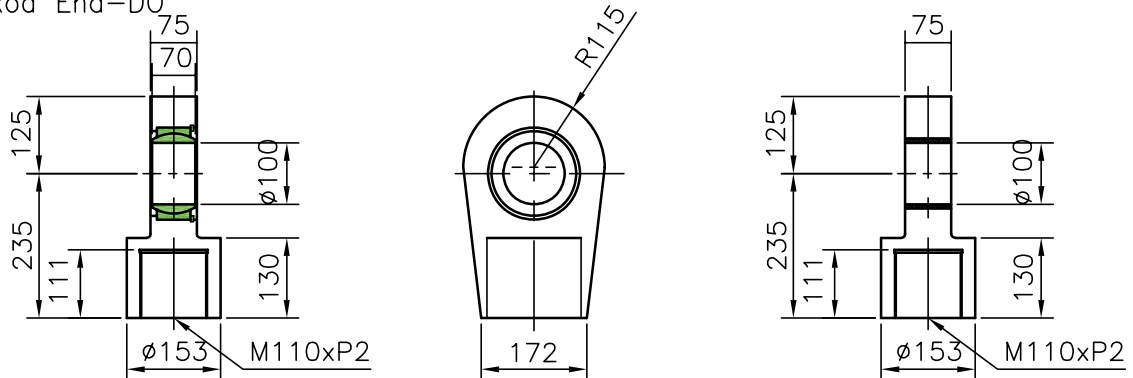
1緩衝器
Check valve
and bleeding
2排氣孔
Thrott valve



HC6-ø200 接頭 clevis head-D0

前端球面軸承接頭-D0
Spherical Rod End-D0

前端平行接頭-D0
Plain Rod End-D0

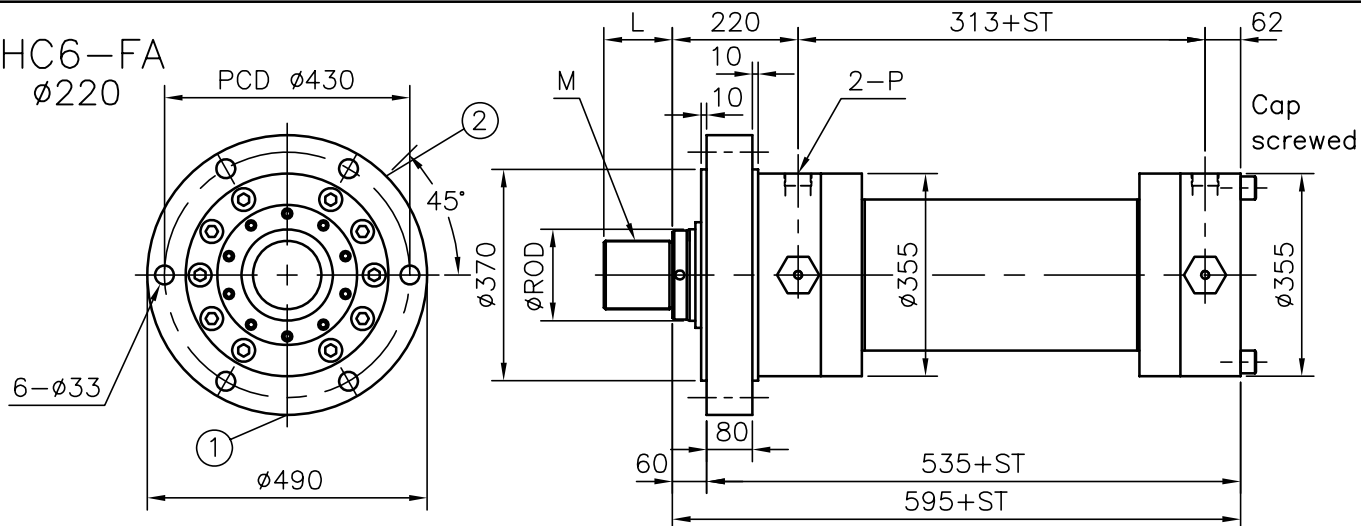


油壓缸大概重量計算 Estimated weight of hyd.

EX. : FA , ST=200mm
weight= W1 + (W2 * ST)
= 326.5 + (23.5 * 2)
= 373.5 kg

	FA	FB	TC	LA	CA
W1 (kg)	326.5	350.6	292.2	303.3	280.4
W2 (kg/100mm)	ø140=23.5		ø125=21.1		

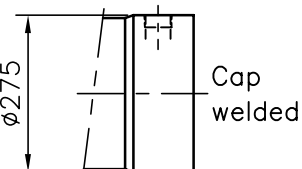
HC6-FA ø220



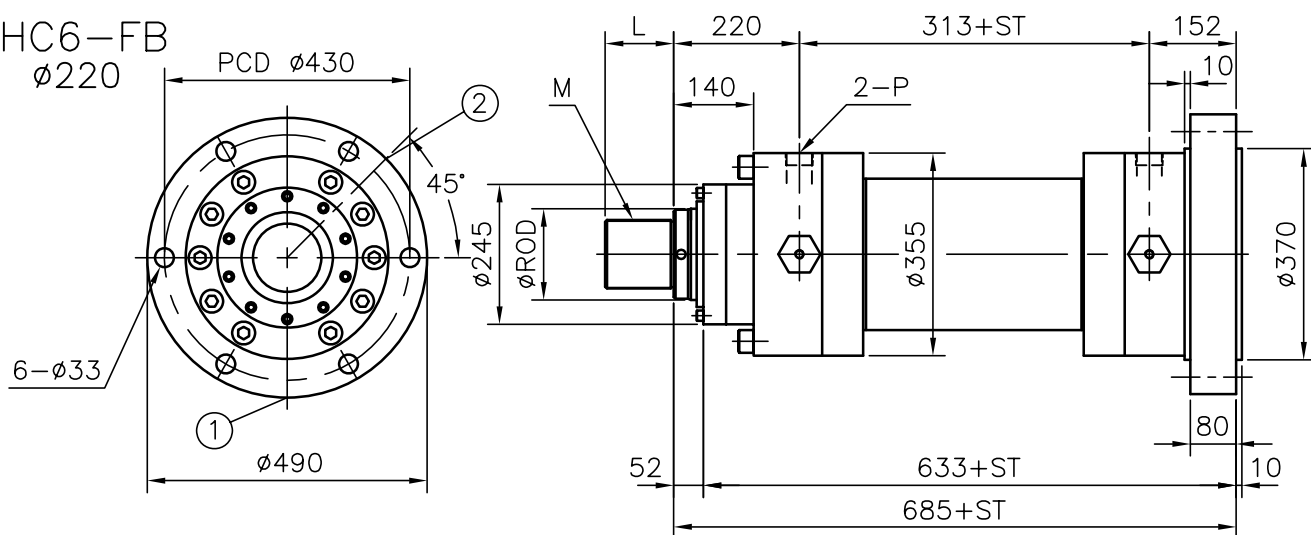
ROD	M		L	
	B	A	B	A
140	M120xP3.0	M120xP4.0	120	160
160				

P
Rc1-1/2"
F5-12-A

1 緩衝器
Check valve
and bleeding
2 排氣孔
Throttl valve



HC6-FB ø220

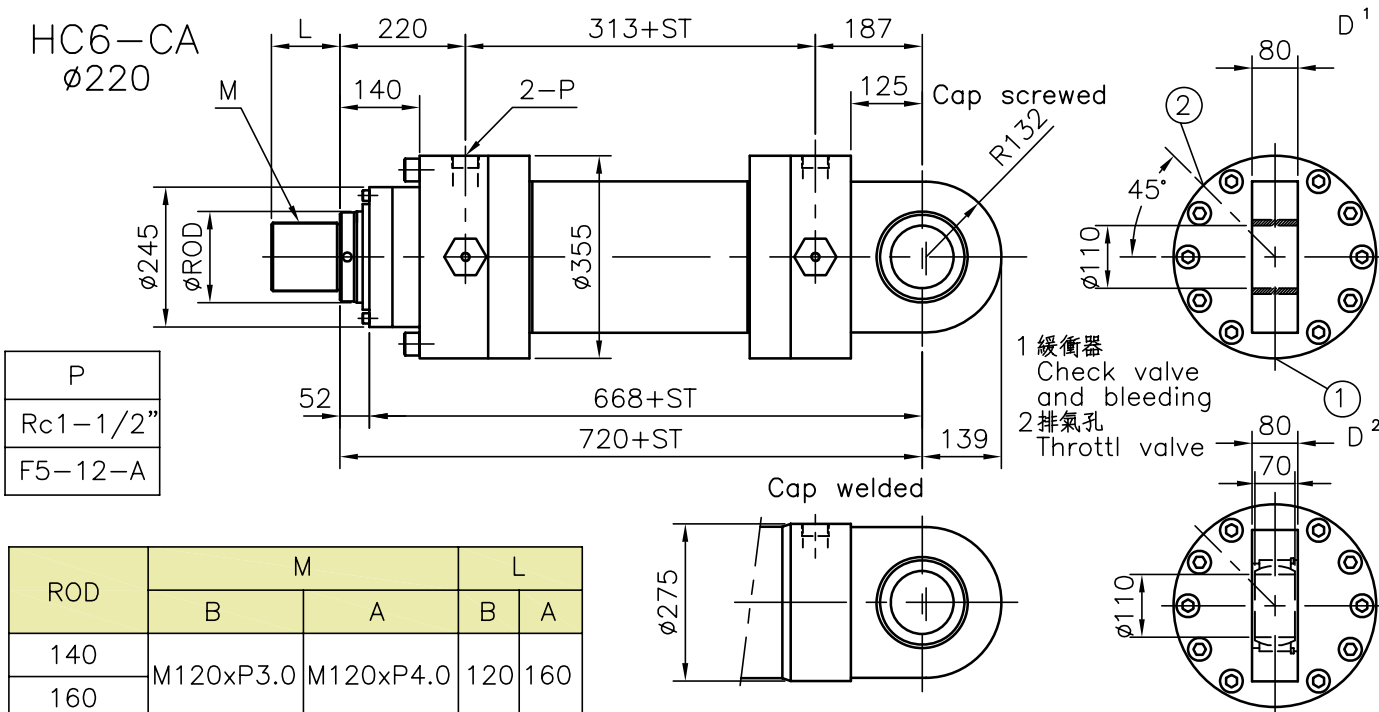


ROD	M		L	
	B	A	B	A
140	M120xP3.0	M120xP4.0	120	160
160				

P
Rc1-1/2"
F5-12-A

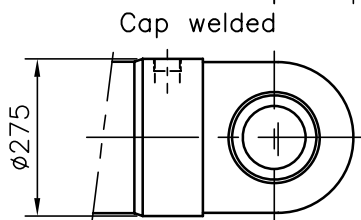
1 緩衝器
Check valve
and bleeding
2 排氣孔
Throttl valve

HC6-CA ø220

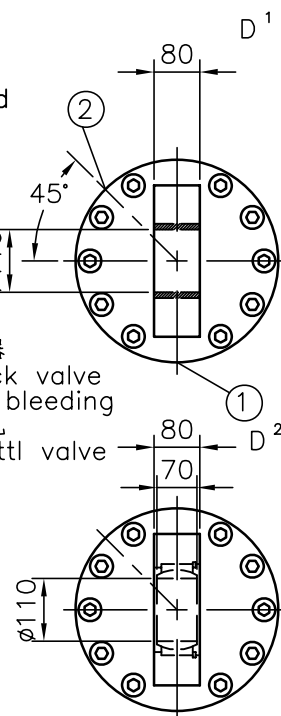


P
Rc1-1/2"
F5-12-A

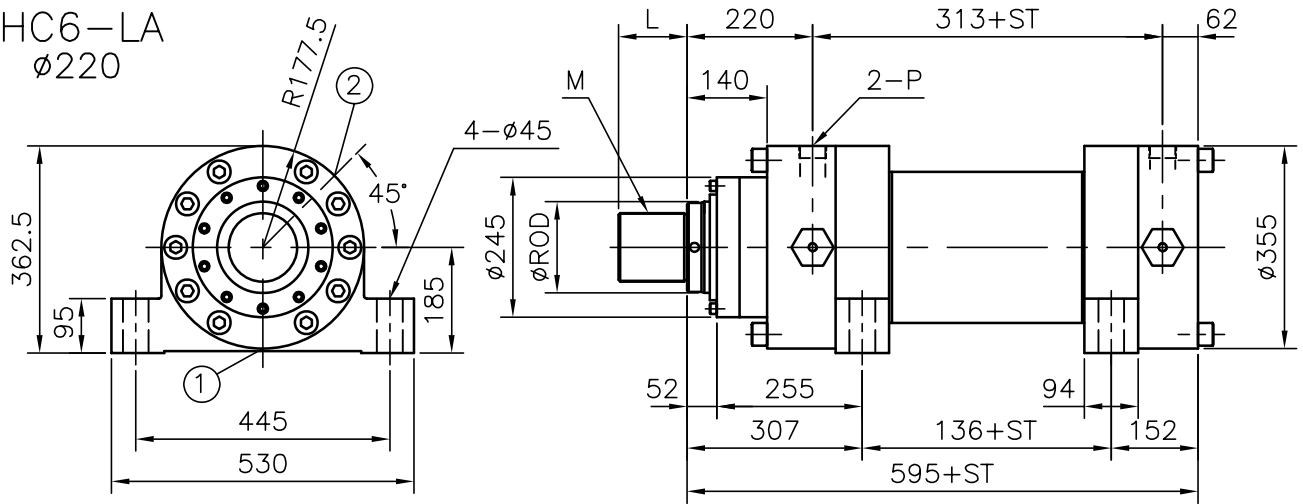
ROD	M		L	
	B	A	B	A
140	M120xP3.0	M120xP4.0	120	160
160				



1 緩衝器
Check valve
and bleeding
2 排氣孔
Throttl valve



HC6-LA
ø220

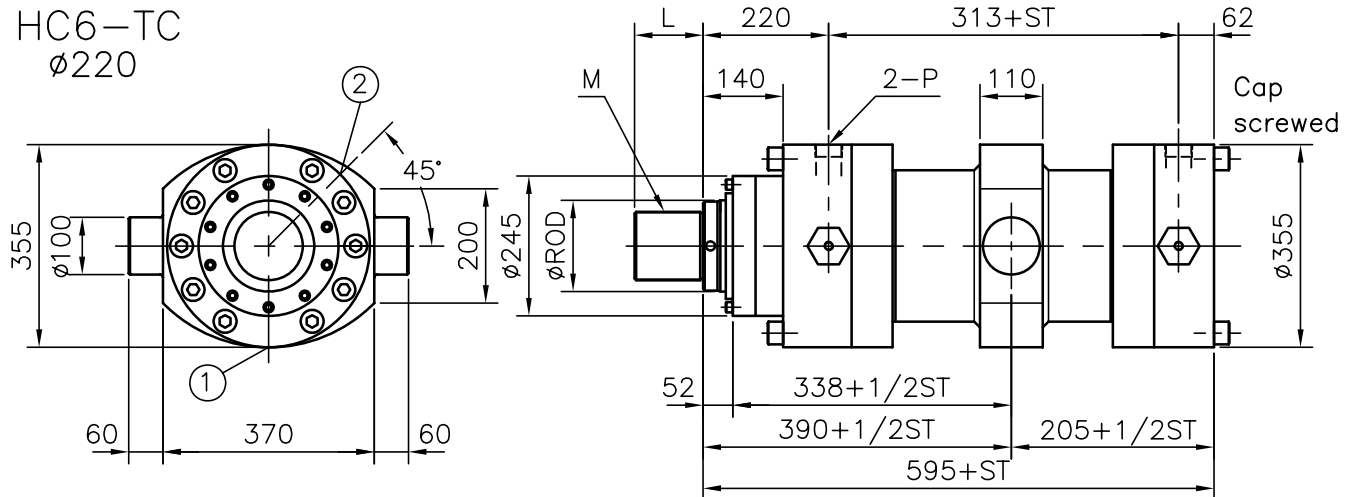


ROD	M		L	
	B	A	B	A
140	M120xP3.0	M120xP4.0	120	160
160				

P
Rc1-1/2"
F5-12-A

1 緩衝器
Check valve
and bleeding
2 排氣孔
Throttl valve

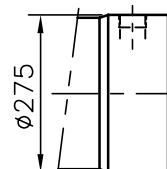
HC6-TC
ø220



ROD	M		L	
	B	A	B	A
140	M120xP3.0	M120xP4.0	120	160
160				

P
Rc1-1/2"
F5-12-A

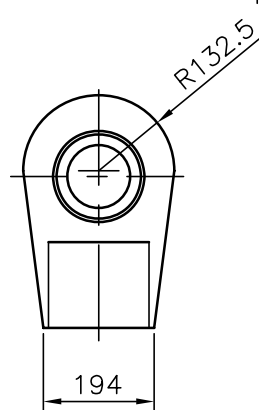
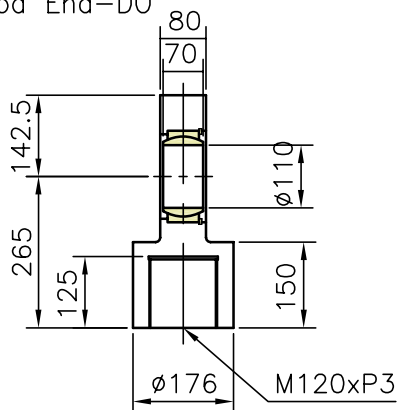
1 緩衝器
Check valve
and bleeding
2 排氣孔
Throttl valve



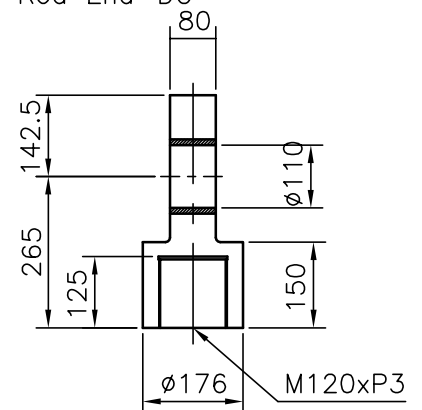
Cap
welded

HC6-ø220 接頭 clevis head-D0

前端球面軸承接頭-D0
Spherical Rod End-D0



前端平行接頭-D0
Plain Rod End-D0



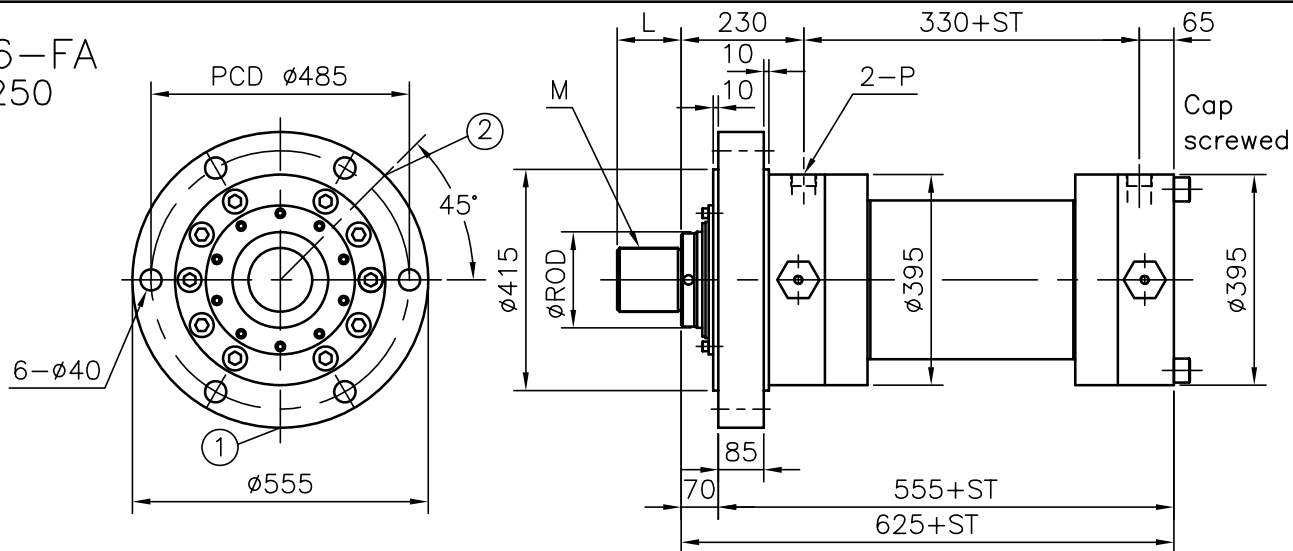
油壓缸大概重量計算 Estimated weight of hyd.

EX. : FA , ST=200mm

$$\begin{aligned} \text{weight} &= W1 + (W2 * ST) \\ &= 459.9 + (29.2 * 2) \\ &= 518.3 \text{ kg} \end{aligned}$$

	FA	FB	TC	LA	CA
W1 (kg)	459.9	493.2	427.3	434.6	402.8
W2 (kg/100mm)	ø160=29.2		ø140=25.5		

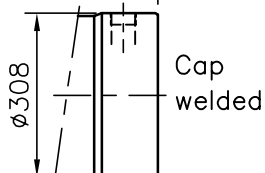
HC6-FA ø250



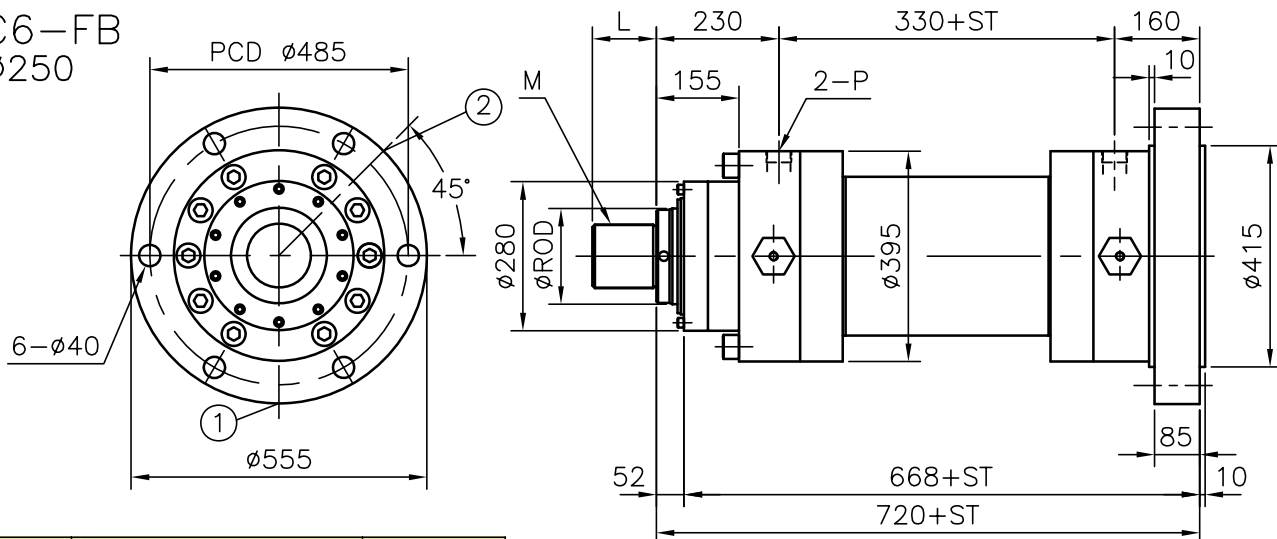
ROD	M		L	
	B	A	B	A
160	M120xP3.0	M120xP4.0	120	160
180				

P
Rc1-1/2"
F5-12-A

1 緩衝器
Check valve
and bleeding
2 排氣孔
Throttling valve



HC6-FB ø250

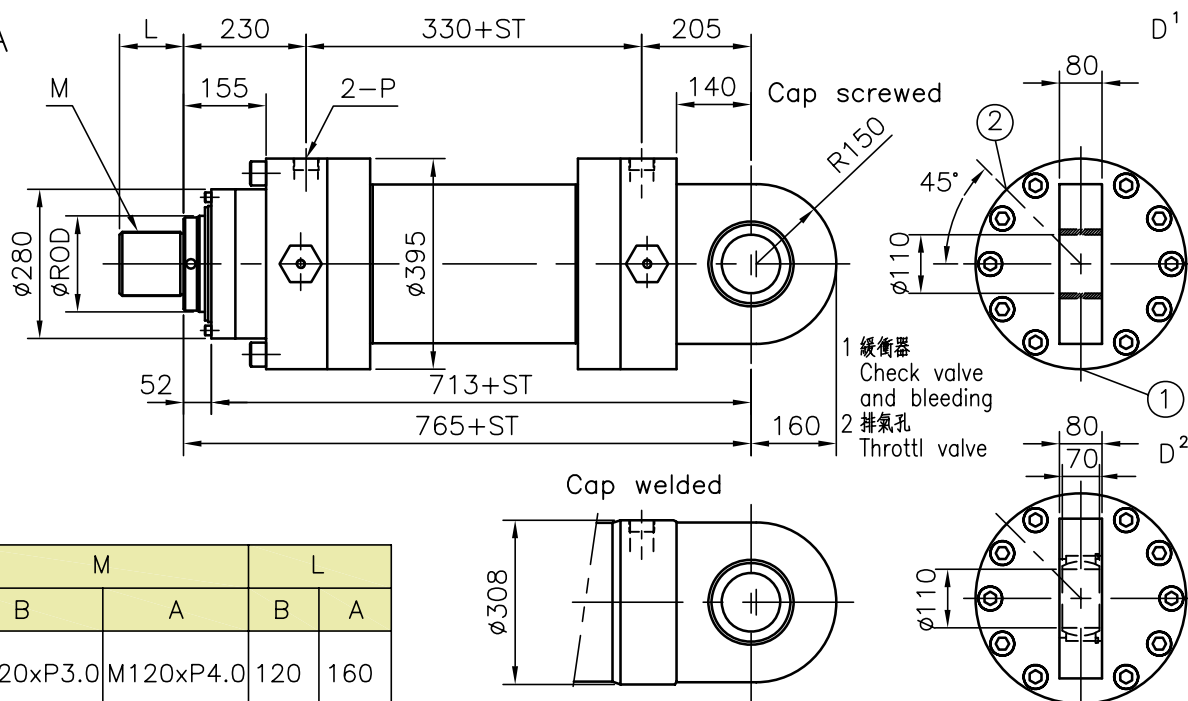


ROD	M		L	
	B	A	B	A
160	M120xP3.0	M120xP4.0	120	160
180				

P
Rc1-1/2"
F5-12-A

1 緩衝器
Check valve
and bleeding
2 排氣孔
Throttling valve

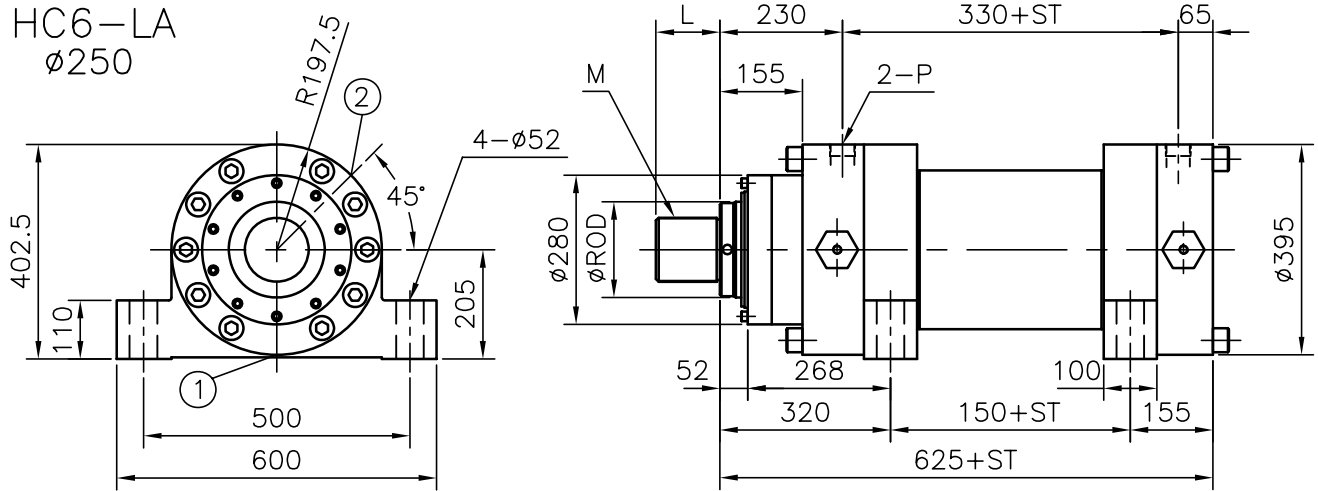
HC6-CA ø250



P
Rc1-1/2"
F5-12-A

ROD	M		L	
	B	A	B	A
160	M120xP3.0	M120xP4.0	120	160
180				

HC6-LA ø250

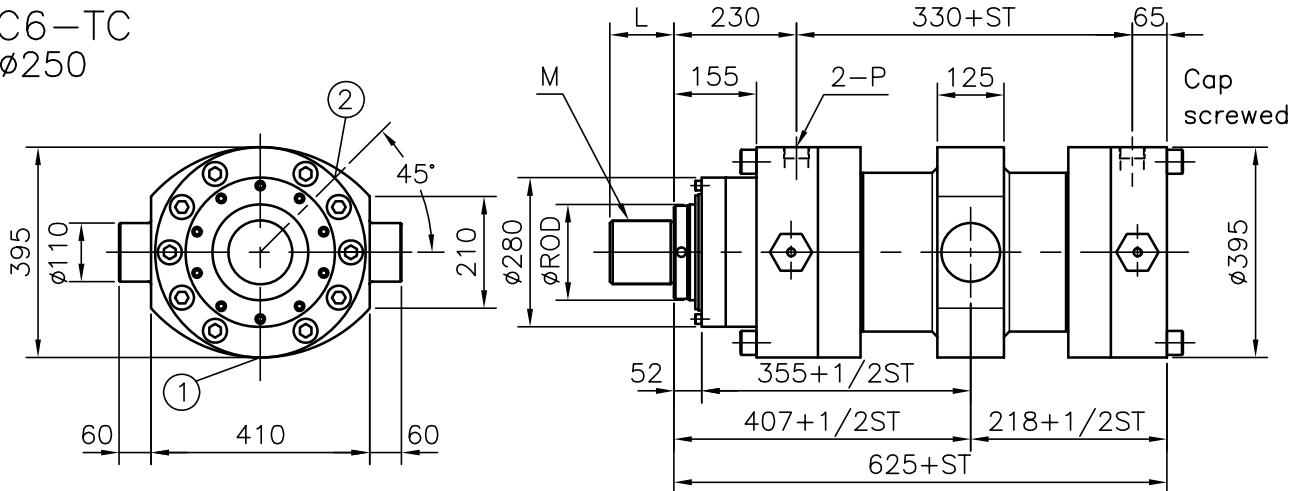


ROD	M		L	
	B	A	B	A
160	M120xP3.0	M120xP4.0	120	160
180				

P
Rc1-1/2"
F5-12-A

1 緩衝器
Check valve
and bleeding
2 排氣孔
Throttl valve

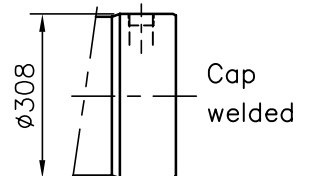
HC6-TC ø250



ROD	M		L	
	B	A	B	A
160	M120xP3.0	M120xP4.0	120	160
180				

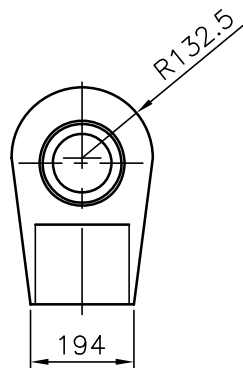
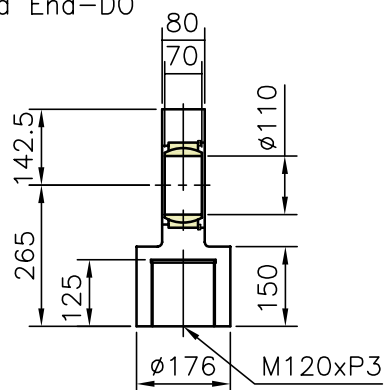
P
Rc1-1/2"
F5-12-A

1 緩衝器
Check valve
and bleeding
2 排氣孔
Throttl valve

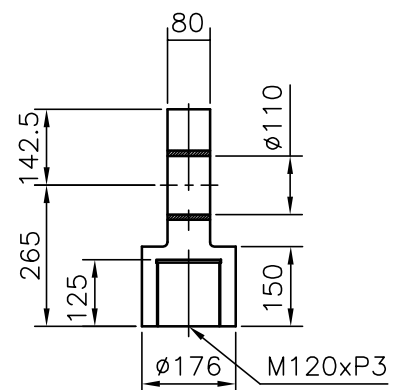


HC6-ø250 接頭 clevis head-D0

前端球面軸承接頭-D0
Spherical Rod End-D0



前端平行接頭-D0
Plain Rod End-D0



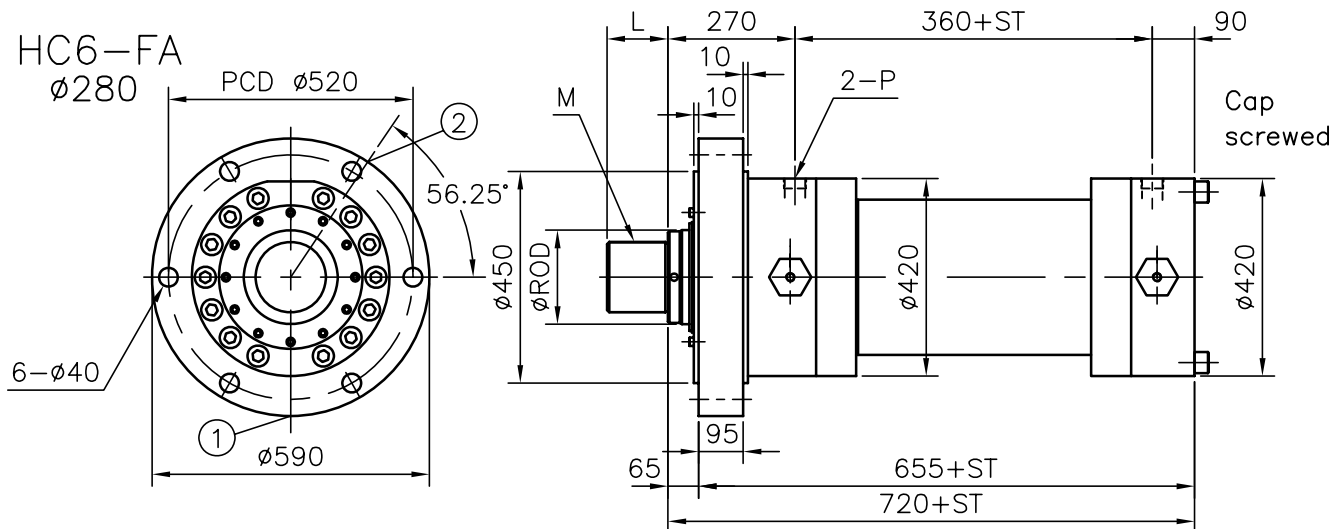
油壓缸大概重量計算 Estimated weight of hyd.

EX. : FA , ST=200mm

$$\begin{aligned} \text{weight} &= W1 + (W2 * ST) \\ &= 602.7 + (36.2 * 2) \\ &= 675.1 \text{ kg} \end{aligned}$$

	FA	FB	TC	LA	CA
W1 (kg)	602.7	648.6	558.1	561.9	526.2
W2 (kg/100mm)	ø180=36.2		ø160=32		

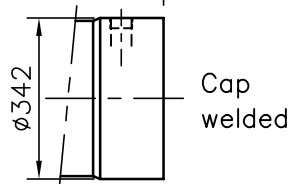
HC6-FA ø280



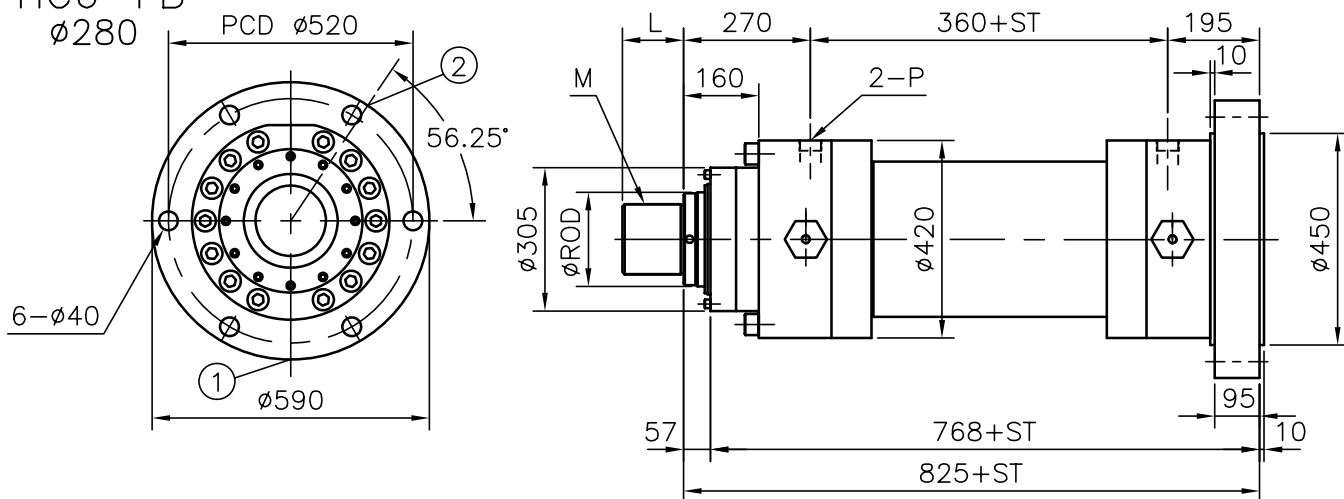
ROD	M		L	
	B	A	B	A
180	M130xP3.0	M150xP4.0	130	190
200				

P
Rc1-1/2"
F5-12-A

1 緩衝器
Check valve
and bleeding
2 排氣孔
Throttl valve



HC6-FB ø280

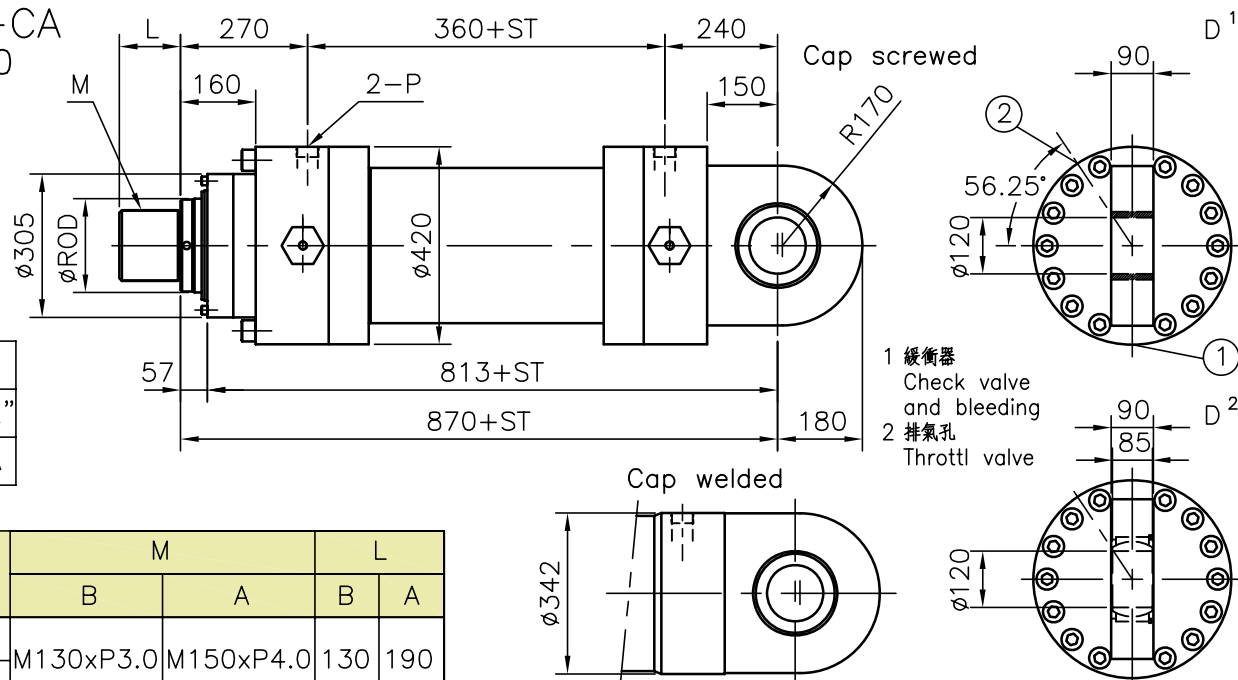


ROD	M		L	
	B	A	B	A
180	M130xP3.0	M150xP4.0	130	190
200				

P
Rc1-1/2"
F5-12-A

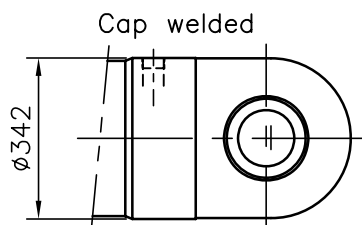
1 緩衝器
Check valve
and bleeding
2 排氣孔
Throttl valve

HC6-CA ø280

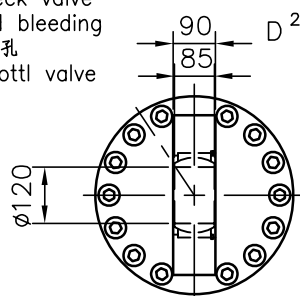


P
Rc1-1/2"
F5-12-A

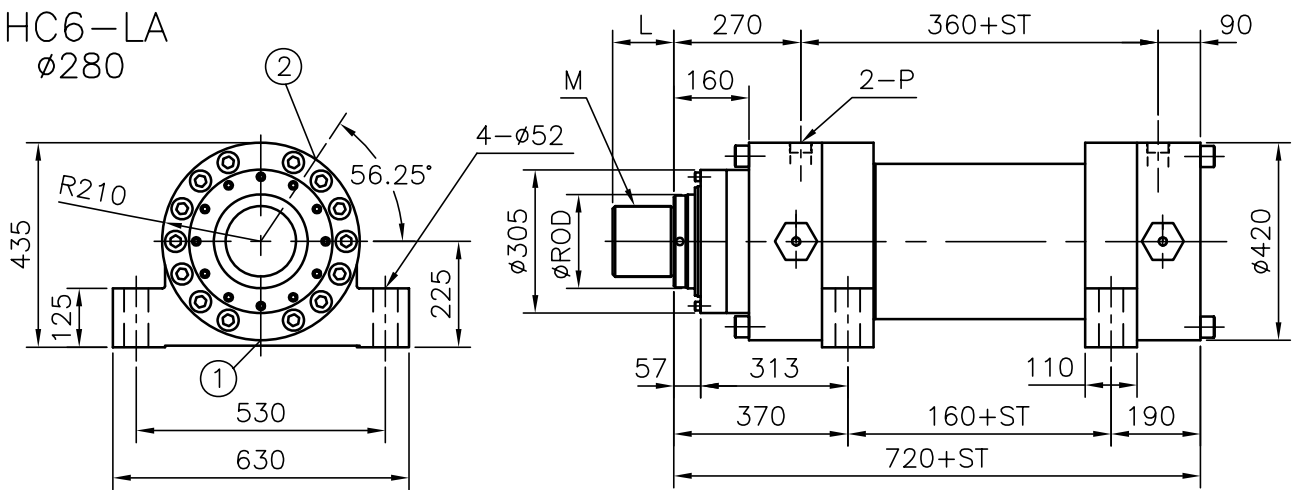
ROD	M		L	
	B	A	B	A
180	M130xP3.0	M150xP4.0	130	190
200				



1 緩衝器
Check valve
and bleeding
2 排氣孔
Throttl valve



HC6-LA ø280

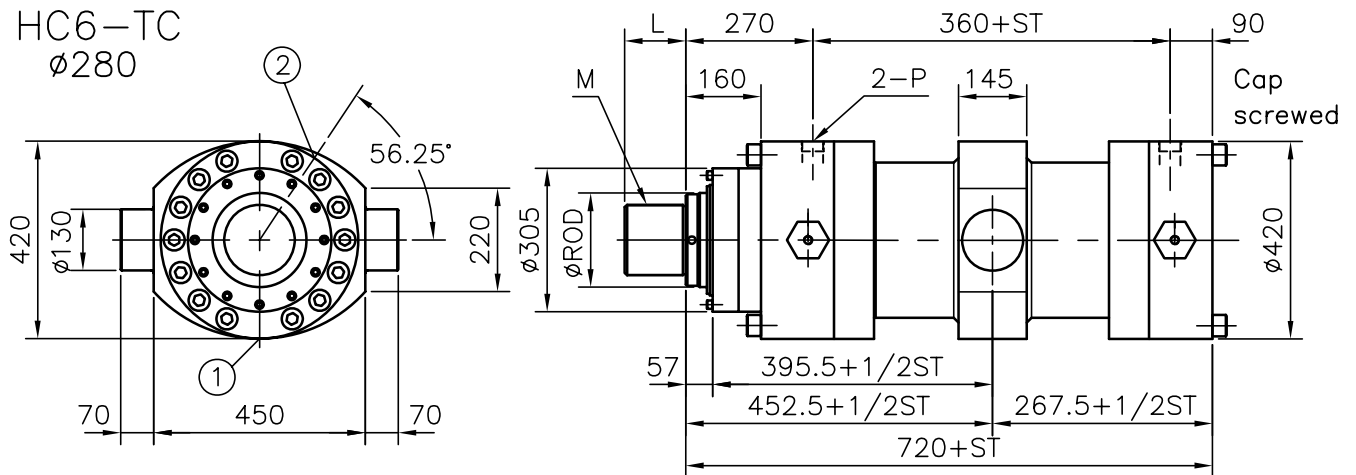


ROD	M		L	
	B	A	B	A
180	M130xP3.0	M150xP4.0	130	190
200				

P
Rc1-1/2"
F5-12-A

1 緩衝器
Check valve
and bleeding
2 排氣孔
Thrott valve

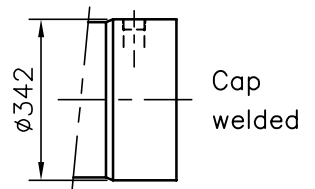
HC6-TC ø280



ROD	M		L	
	B	A	B	A
180	M130xP3.0	M150xP4.0	130	190
200				

P
Rc1-1/2"
F5-12-A

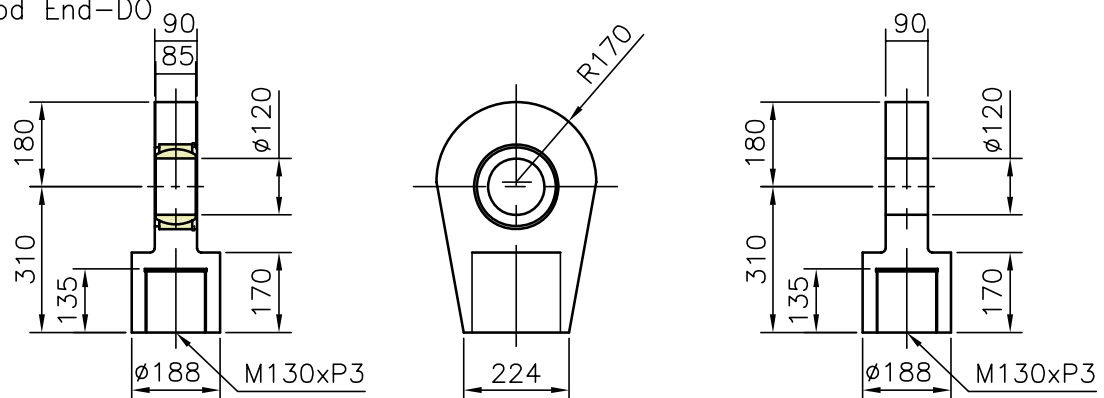
1 緩衝器
Check valve
and bleeding
2 排氣孔
Thrott valve



HC6-ø280 接頭 clevis head-D0

前端球面軸承接頭-D0
Spherical Rod End-D0

前端平行接頭-D0
Plain Rod End-D0

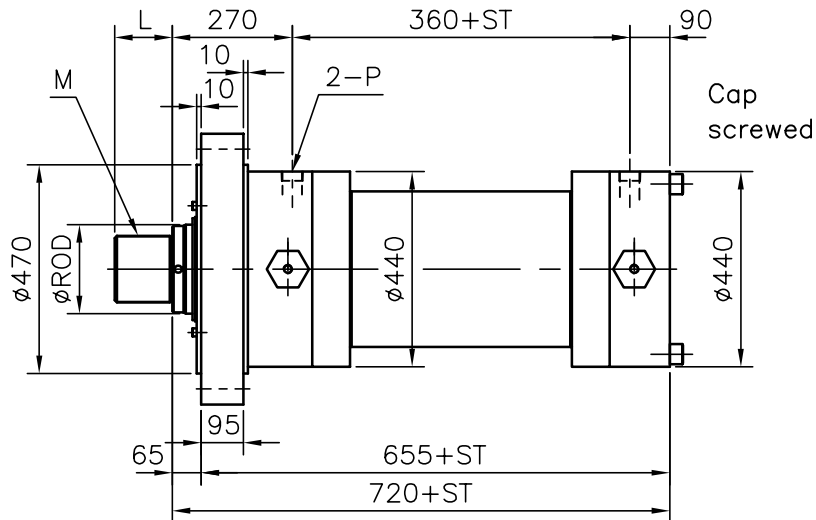
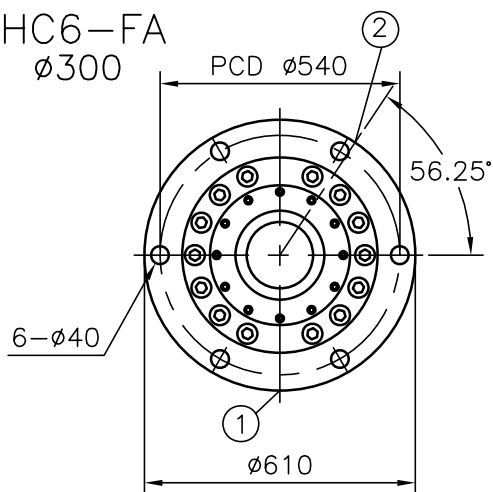


油壓缸大概重量計算 Estimated weight of hyd.

EX. : FA , ST=200mm
weight= W1 + (W2 * ST)
= 803.1 + (43.5 * 2)
= 890.1 kg

	FA	FB	TC	LA	CA
W1 (kg)	803.1	863.3	753.4	757.2	715.1
W2 (kg/100mm)	ø200=43.5		ø180=38.8		

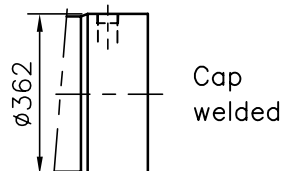
HC6-FA ø300



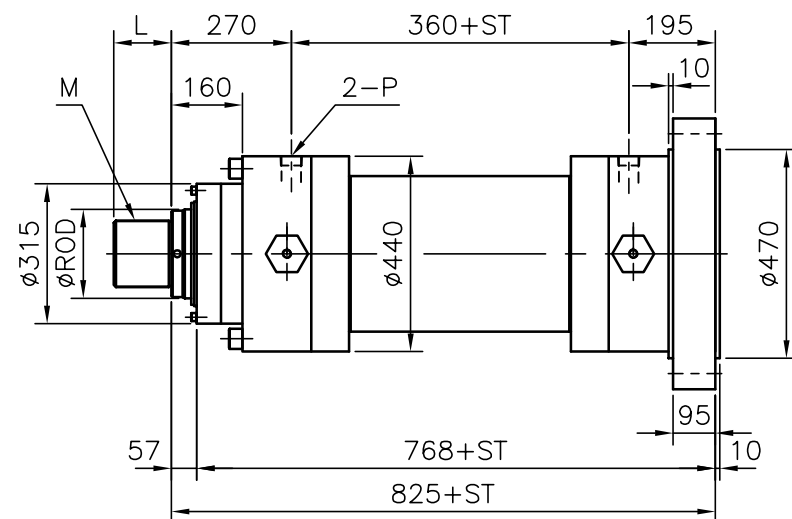
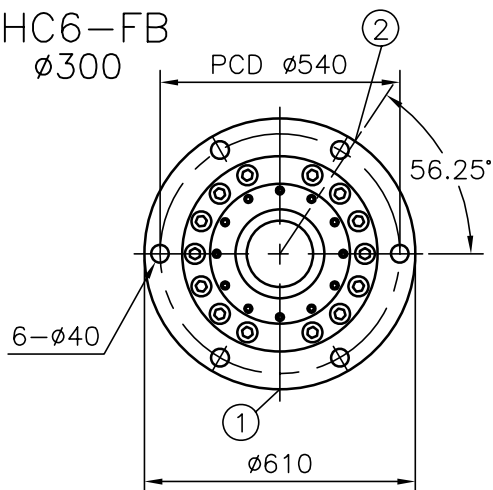
ROD	M		L	
	B	A	B	A
180	M130xP3.0	M150xP4.0	130	190
200				

P
Rc1-1/2"
F5-12-A

1 緩衝器
Check valve
and bleeding
2 排氣孔
Throttling valve



HC6-FB ø300

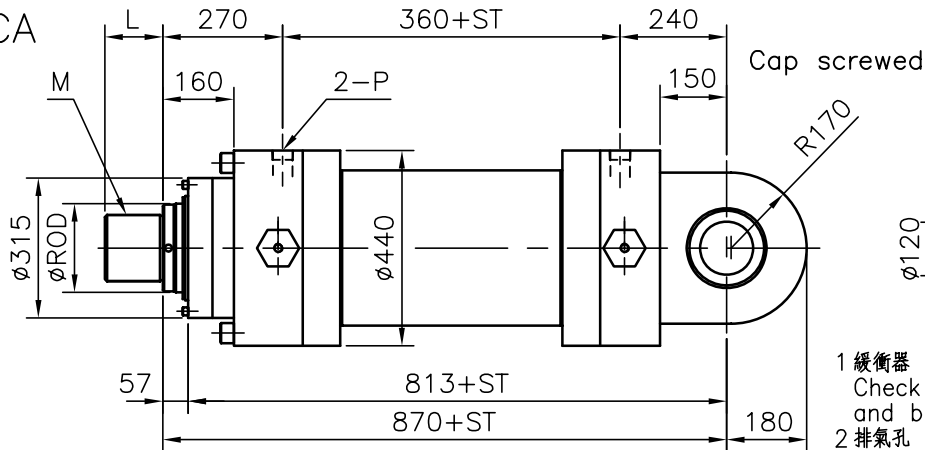


ROD	M		L	
	B	A	B	A
180	M130xP3.0	M150xP4.0	130	190
200				

P
Rc1-1/2"
F5-12-A

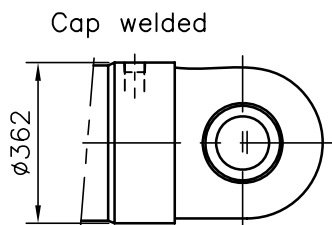
1 緩衝器
Check valve
and bleeding
2 排氣孔
Throttling valve

HC6-CA ø300

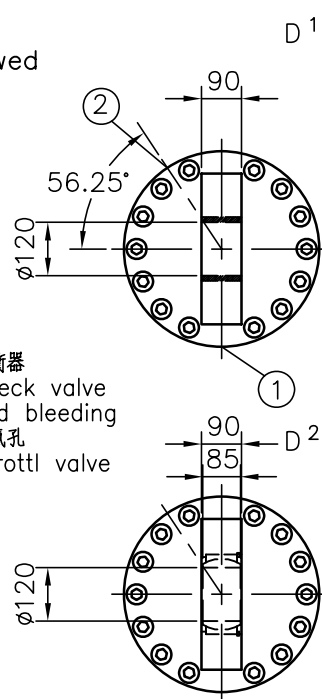


P
Rc1-1/2"
F5-12-A

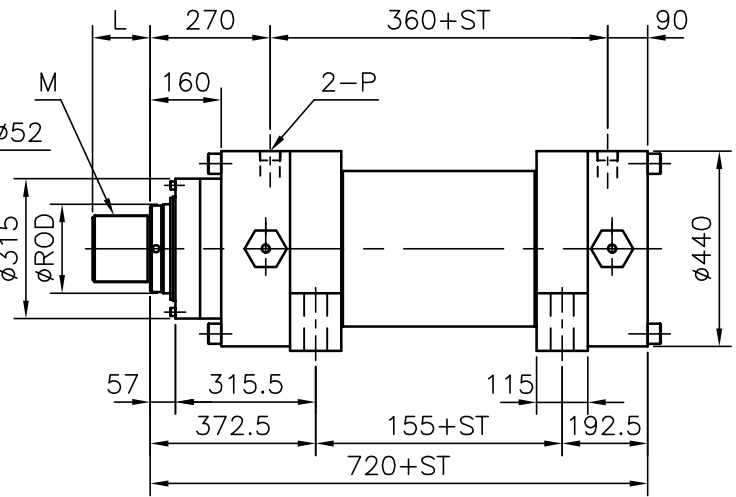
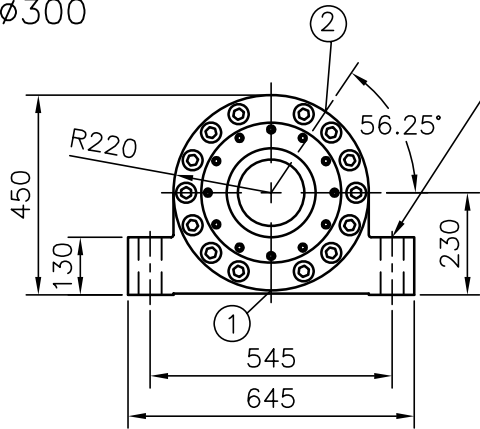
ROD	M		L	
	B	A	B	A
180	M130xP3.0	M150xP4.0	130	190
200				



1 緩衝器
Check valve
and bleeding
2 排氣孔
Throttling valve



HC6-LA ø300

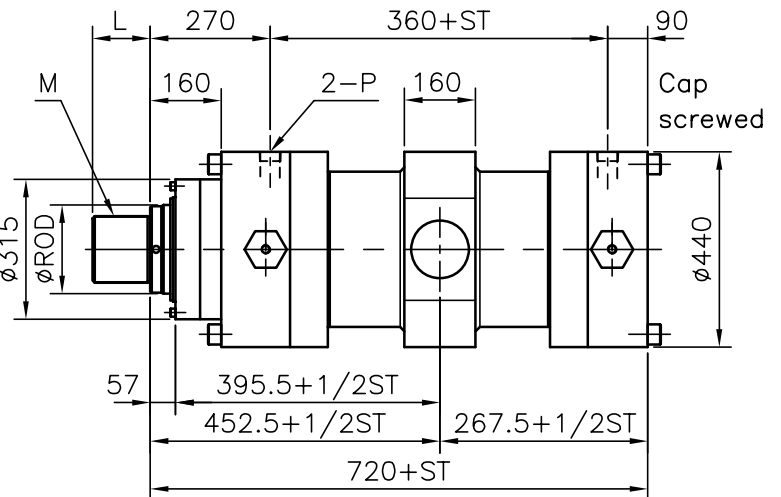
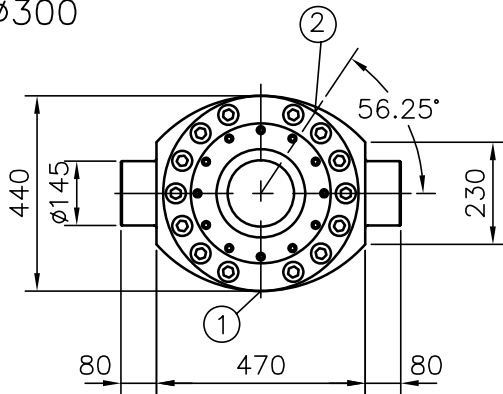


ROD	M		L	
	B	A	B	A
180	M130xP3.0	M150xP4.0	130	190
200				

P
Rc1-1/2"
F5-12-A

1 緩衝器
Check valve
and bleeding
2 排氣孔
Thrott valve

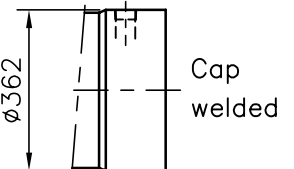
HC6-TC ø300



ROD	M		L	
	B	A	B	A
180	M130xP3.0	M150xP4.0	130	190
200				

P
Rc1-1/2"
F5-12-A

1 緩衝器
Check valve
and bleeding
2 排氣孔
Thrott valve

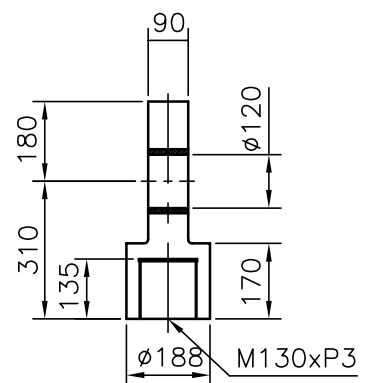
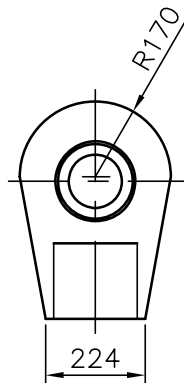
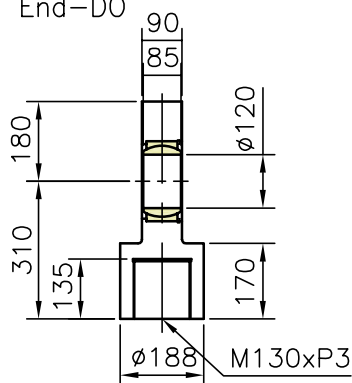


HC6-ø300 接頭 clevis head-D0

前端球面軸承接頭-D0
Spherical Rod End-D0

前端平行接頭-D0

Plain Rod End-D0



油壓缸大概重量計算 Estimated weight of hyd.

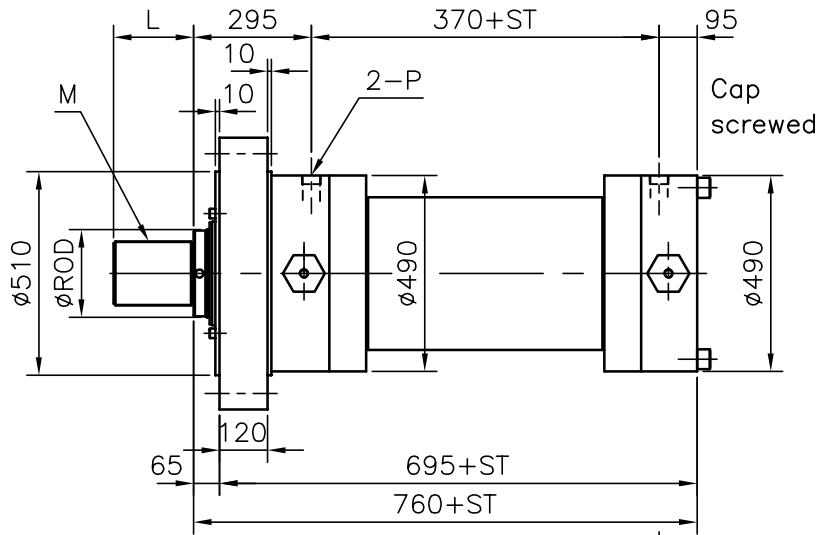
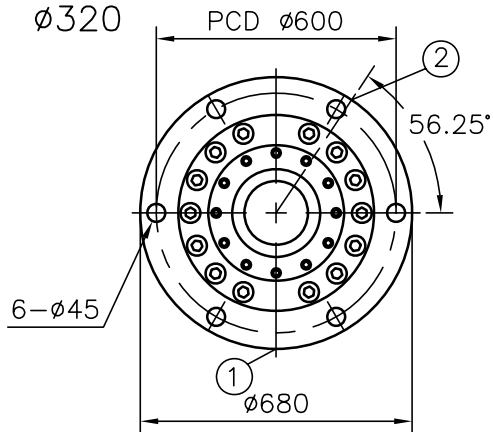
EX. : FA , ST=200mm

$$\begin{aligned} \text{weight} &= W1 + (W2 * ST) \\ &= 875.2 + (44.7 * 2) \\ &= 964.6 \text{ kg} \end{aligned}$$

	FA	FB	TC	LA	CA
W1 (kg)	875.2	939.4	835	831.7	776
W2 (kg/100mm)	ø200=44.7		ø180=40		

HC6-FA

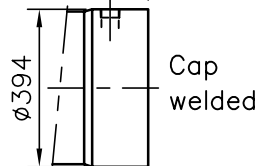
ø320



ROD	M		L	
	B	A	B	A
200	M160xP3.0	M160xP4.0	150	200
220				

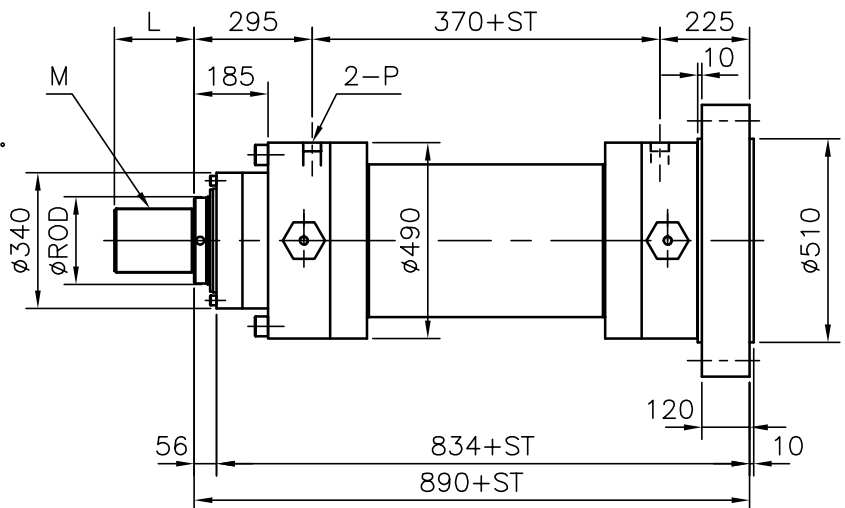
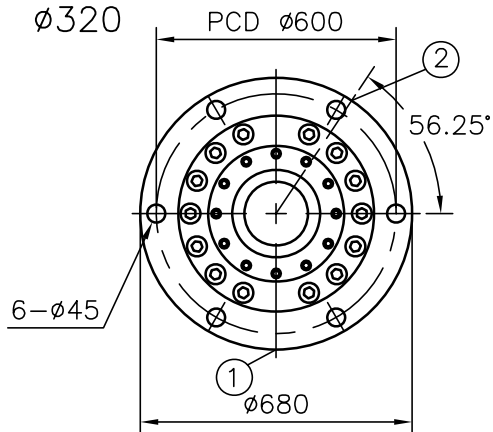
P
Rc1-1/2"
F5-12-A

1緩衝器
Check valve
and bleeding
2排氣孔
Thrott valve



HC6-FB

ø320



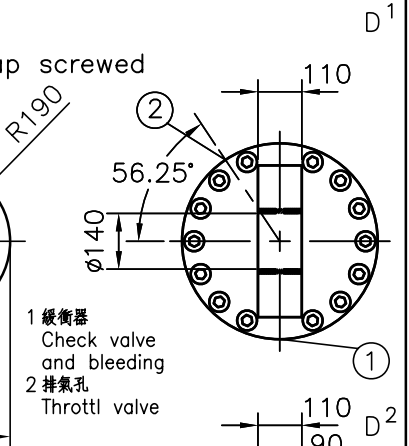
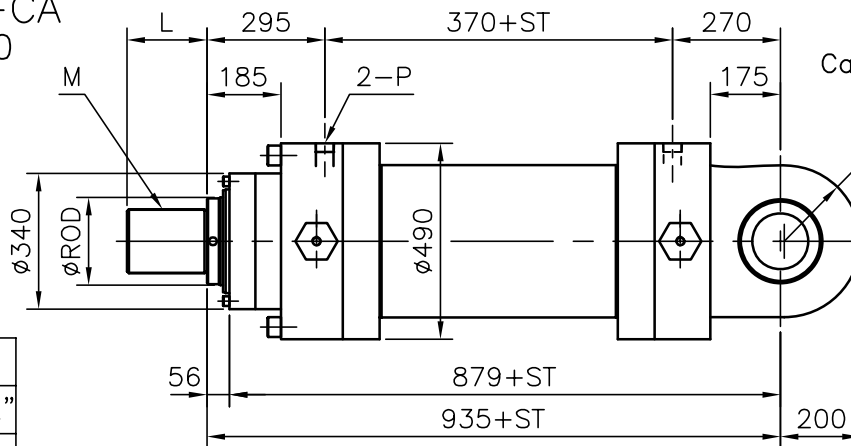
ROD	M		L	
	B	A	B	A
200	M160xP3.0	M160xP4.0	150	200
220				

P
Rc1-1/2"
F5-12-A

1緩衝器
Check valve
and bleeding
2排氣孔
Thrott valve

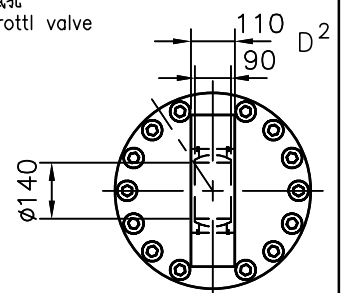
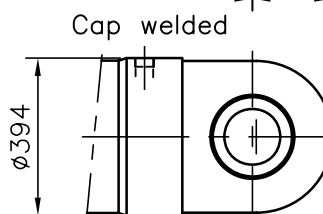
HC6-CA

ø320

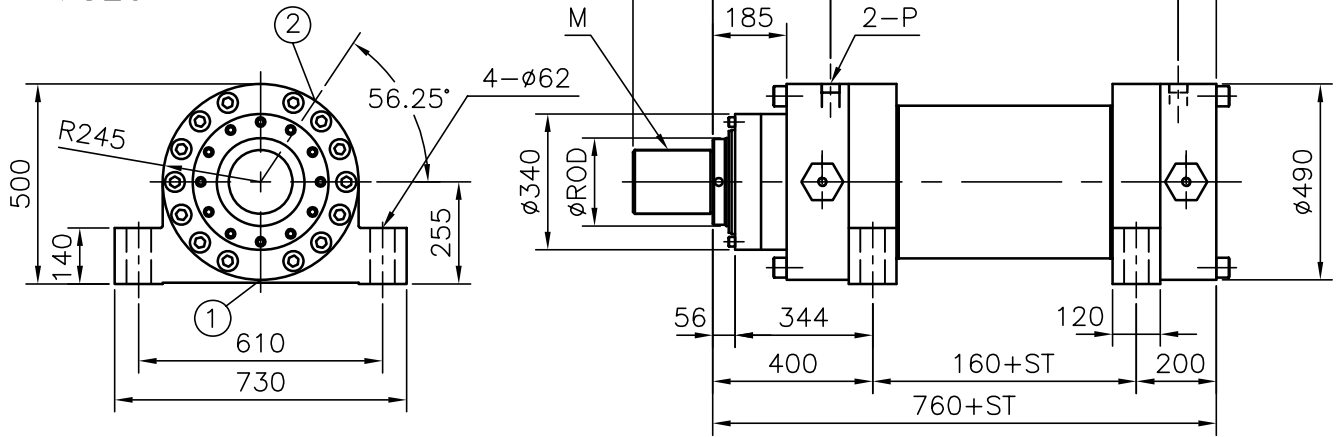


P
Rc1-1/2"
F5-12-A

ROD	M		L	
	B	A	B	A
200	M160xP3.0	M160xP4.0	150	200
220				



HC6-LA ø320

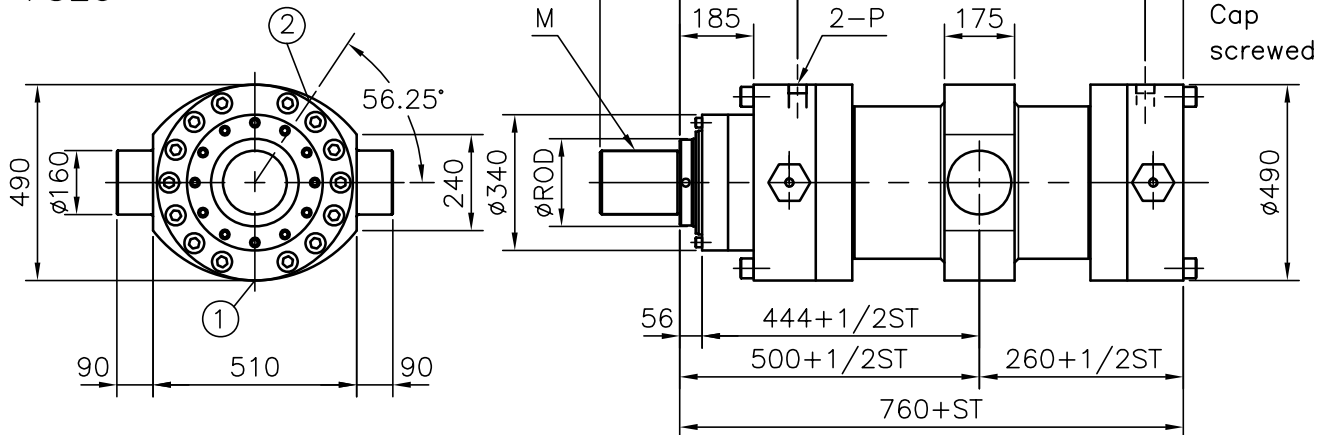


ROD	M		L	
	B	A	B	A
200	M160xP3.0	M160xP4.0	150	200
220				

P
Rc1-1/2"
F5-12-A

1緩衝器
Check valve
and bleeding
2排氣孔
Throttl valve

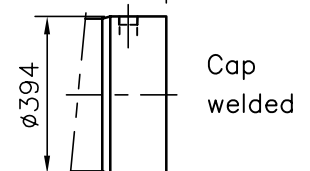
HC6-TC ø320



ROD	M		L	
	B	A	B	A
200	M160xP3.0	M160xP4.0	150	200
220				

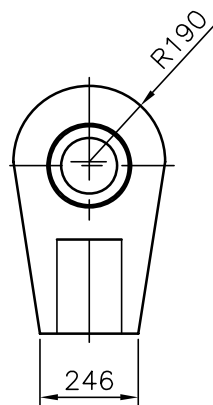
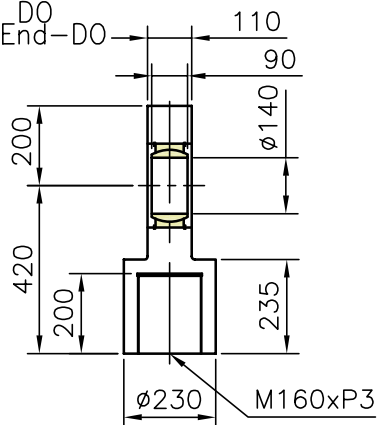
P
Rc1-1/2"
F5-12-A

1緩衝器
Check valve
and bleeding
2排氣孔
Throttl valve

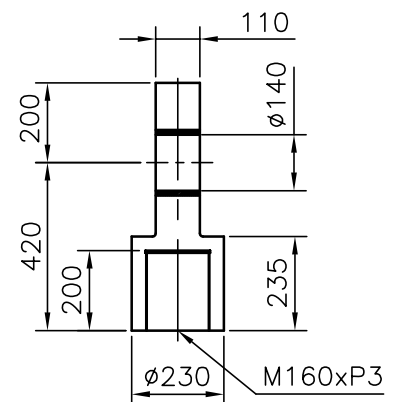


HC6-ø320 接頭 clevis head-D0

前端球面軸承接頭-D0
Spherical Rod End-D0



前端平行接頭-D0
Plain Rod End-D0



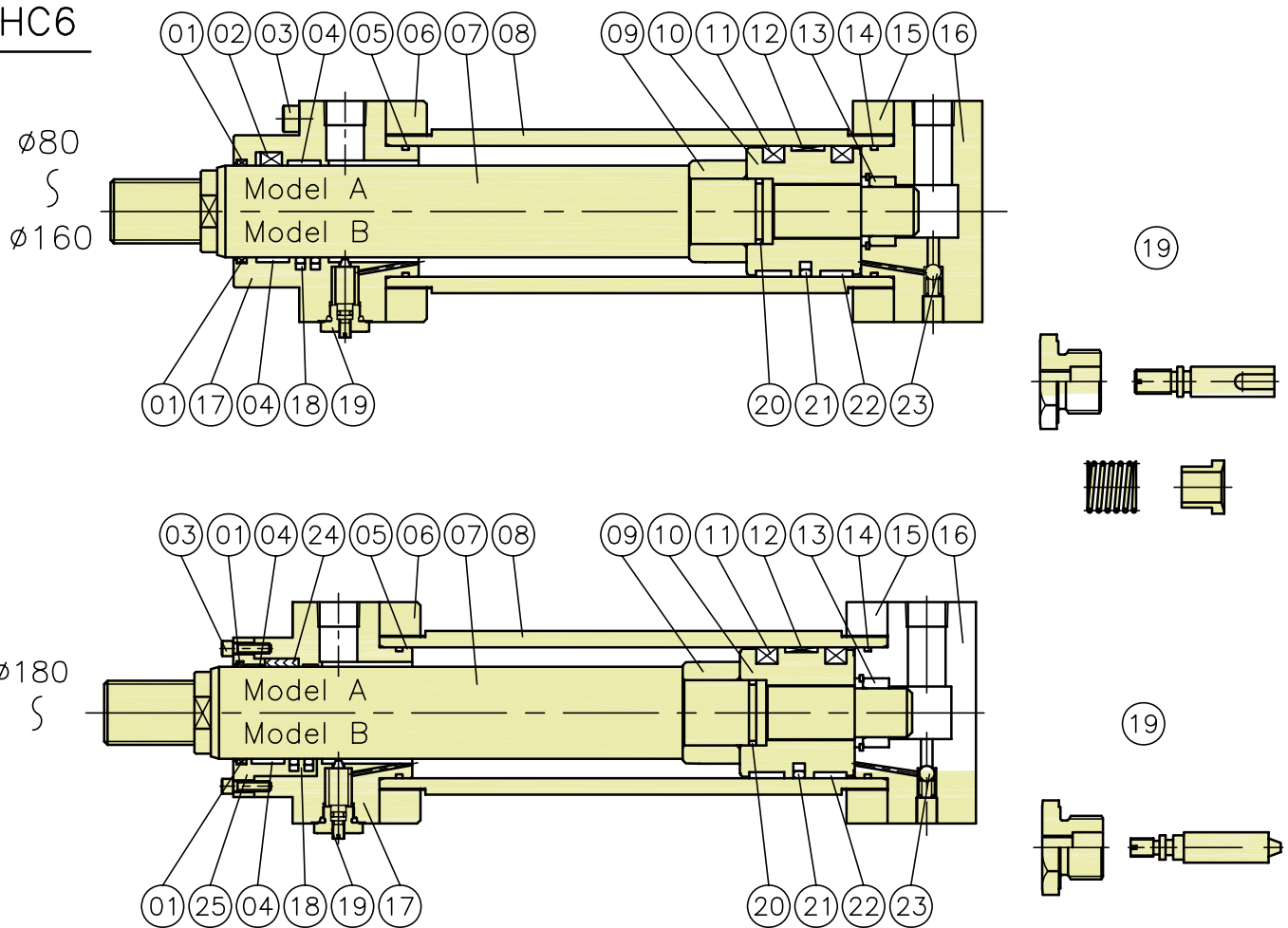
油壓缸大概重量計算

Estimated weight of hyd.

EX. : FA , ST=200mm
weight= W1 + (W2 * ST)
= 1183.8 + (56.6 * 2)
= 1297 kg

	FA	FB	TC	LA	CA
W1 (kg)	1183.8	1276.5	1088.6	1077.5	1023.7
W2 (kg/100mm)	ø220=56.6		ø200=51.5		

HC6



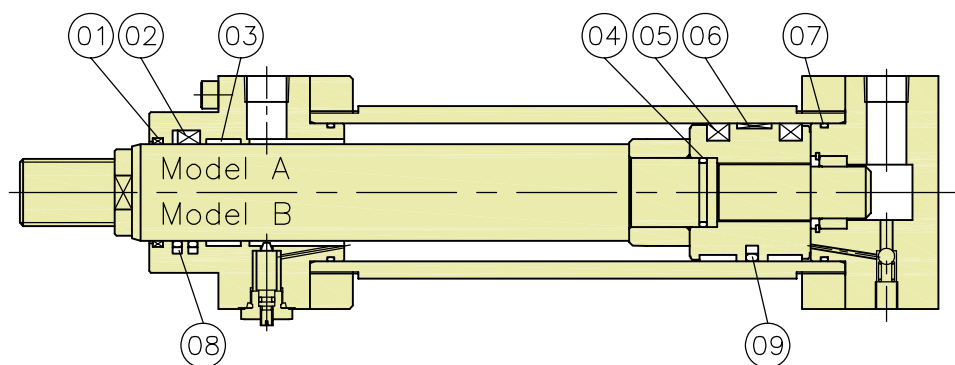
零件名稱 Parts Description

01	Wiper 防塵油封	10	Piston 活塞	19	Throttle valve 節流閥
02	Rod seal for model "U" 軸用U型油封	11	Piston seal for model "U" 活塞用U型油封	20	O-ring O型環
03	Socket head cap screw 六角承窩螺栓	12	Guide bush 導襯套	21	Piston seal for model "T" 活塞用T型油封
04	Guide bush 導襯套	13	Blank end cushioning bush 後緩衝環	22	Guide bush 導襯套
05	O ring O型環	14	O ring O型環	23	Non return valve and bleed 止逆閥
06	Flange 法蘭	15	Flange 法蘭	24	Rod seal for model "V" 軸用V型油封
07	Piston rod 活塞桿	16	Cylinder cap 後蓋	25	Cover 壓板
08	Cylinder tube 油壓缸管	17	Head 前蓋		
09	Rod end cushioning bush 前緩衝環	18	Rod seal for model "T" 軸用T型油封		

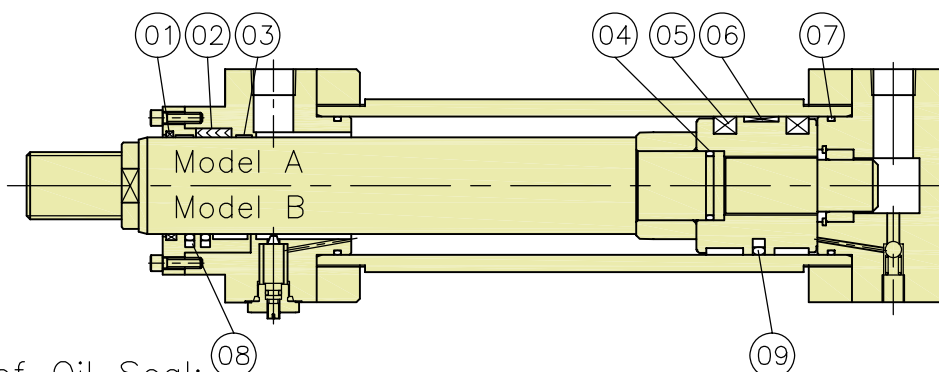
NOTE : Throttle and non return valves in cylinder head and cylinder cap
備註 : 節流閥和止逆閥置於油壓缸的前蓋及後蓋

HC6

ø80
S
ø160



ø180
S



油封規格表

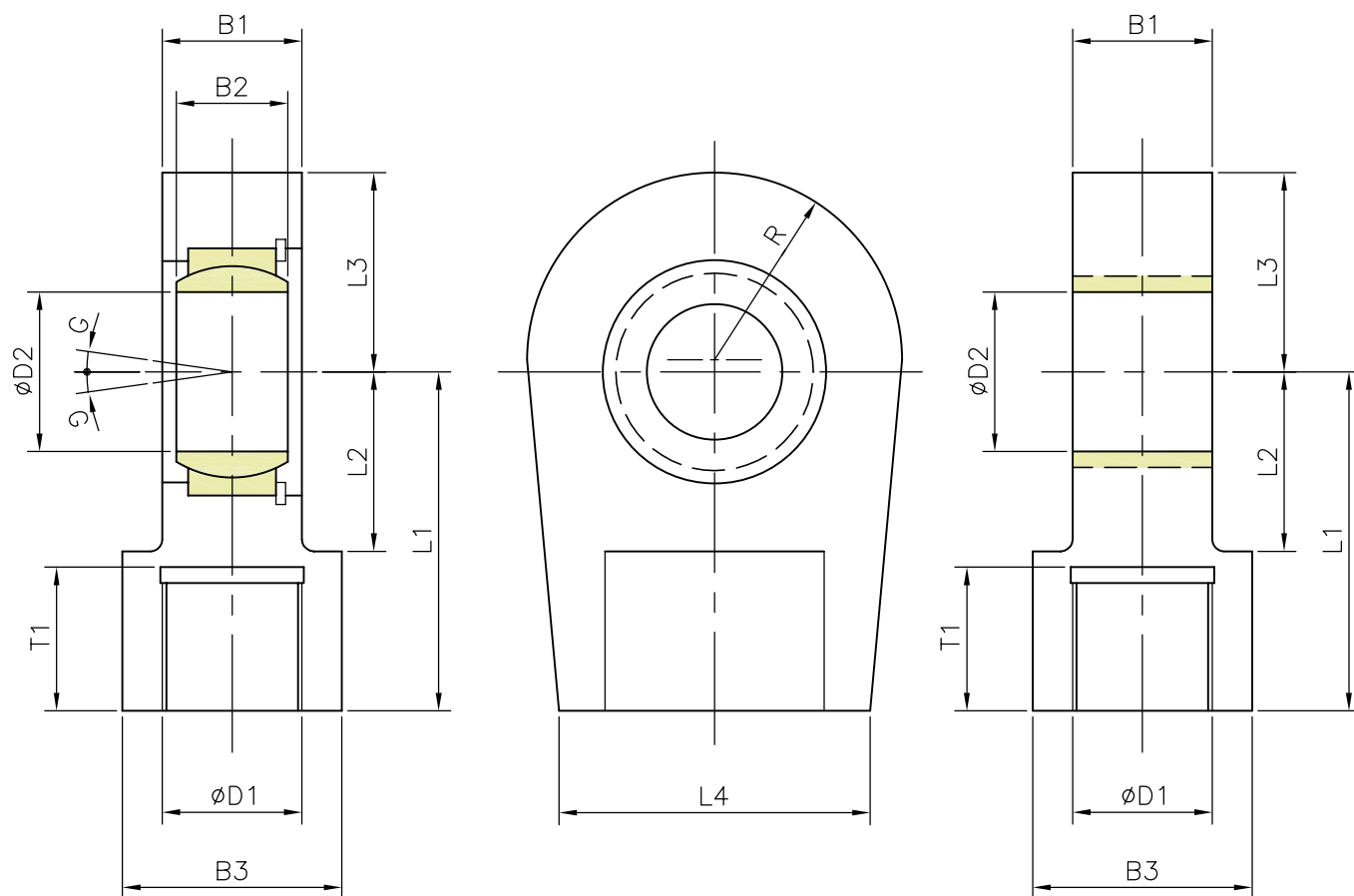
Specifications of Oil Seal:

NO		1	2	3	4	5	6	7	8	9
名 稱		防塵油封 Dust Seal	軸心油封 Rod Seal	耐磨片 Wear Ring	O型環 O Ring	活塞油封 Piston Seal	耐磨片 Wear Ring	O型環 O Ring	軸心油封T型 Rod Seal T	活塞油封T型 Piston Seal T
材質		PU	PU	PTFE	NBR	PU	PTFE	NBR	PTFE+NBR	PTFE+NBR
數 量 內徑		1 ø,ø.w mm	ø,ø.w 1 mm +Backup ring	2	1	ø,ø.w 2 mm +Backup ring	1	1	ø,ø.w 2 mm	ø,ø.w 1 mm
ø80	A	45-53-6.5	45-61-16	45-2.5	G-35	80-60-13	80-2.5	G-75	45-60.1-6.3	80-64.5-6.3
	B	56-64-6.5	56-72-16	56-2.5	G-45				56-71.1-6.3	
ø100	A	56-64-6.5	56-72-16	56-2.5	G-45	100-80-19	100-2.5	G-95	56-71.1-6.3	100-84.5-6.3
	B	70-80-8	70-90-16	70-2.5	G-60				70-85.1-6.3	
ø125	A	70-80-8	70-90-16	70-2.5	G-60	125-105-19	125-2.5	G-120	70-85.1-6.3	125-109.5-6.3
	B	90-100-8	90-110-16	90-2.5	G-75				90-105.1-6.3	
ø140	A	90-100-8	90-110-16	90-2.5	G-75	140-120-19	140-2.5	G135	90-105.1-6.3	140-119-8.1
	B	100-110-8	100-120-16	100-2.5	G-85				100-115.1-6.3	
ø160	A	100-110-8	100-120-19	100-2.5	G-75	160-135-24	160-2.5	G-150	100-115.1-6.3	160-139-8.1
	B	110-120-8	110-130-19	110-2.5	G-85				110-125.1-6.3	
ø180	A	110-120-8	110-130-19	110-2.5	P-80	180-155-24	180-2.5	G-170	110-125.1-6.3	180-159-8.1
	B	125-138-9.5	125-155-39.5	125-2.5	P-95				125-140.1-6.3	
ø200	A	125-138-9.5	125-155-39.5	125-2.5	P-95	200-175-24	200-2.5	G-190	125-140.1-6.3	200-179-8.1
	B	140-153-9.5	140-165-39.5	140-2.5	P-105				140-155.1-6.3	
ø220	A	140-153-9.5	140-165-45.5	140-2.5	P-105	220-195-24	220-2.5	G-210	140-155.1-6.3	220-199-8.1
	B	160-174-9.5	160-185-45.5	160-2.5	P-115				160-175.1-6.3	
ø250	A	160-174-9.5	160-185-45.5	160-2.5	P-115	250-225-24	250-2.5	G-240	160-175.1-6.3	250-229-8.1
	B	180-194-9.5	180-205-45.5	180-2.5	P-140				180-195.1-6.3	
ø280	A	180-194-9.5	180-205-45.5	180-2.5	P-140	280-255-24	280-2.5	G-270	180-195.1-6.3	280-259-8.1
	B	200-214-9.5	200-225-45.5	200-2.5	P-160				200-220.5-8.1	
ø300	A	180-194-9.5	180-205-45.5	180-2.5	P-140	300-275-24	300-2.5	G-290	180-195.1-6.3	300-279-8.1
	B	200-214-9.5	200-225-45.5	200-2.5	P-160				200-220.5-8.1	
ø320	A	200-214-9.5	200-225-45.5	200-2.5	P-160	320-290-24	320-2.5	G-310	200-220.5-8.1	320-299-8.1
	B	220-233-9.5	220-250-50	220-2.5	P-180				220-240.5-8.1	

接頭 Clevis Head— L0

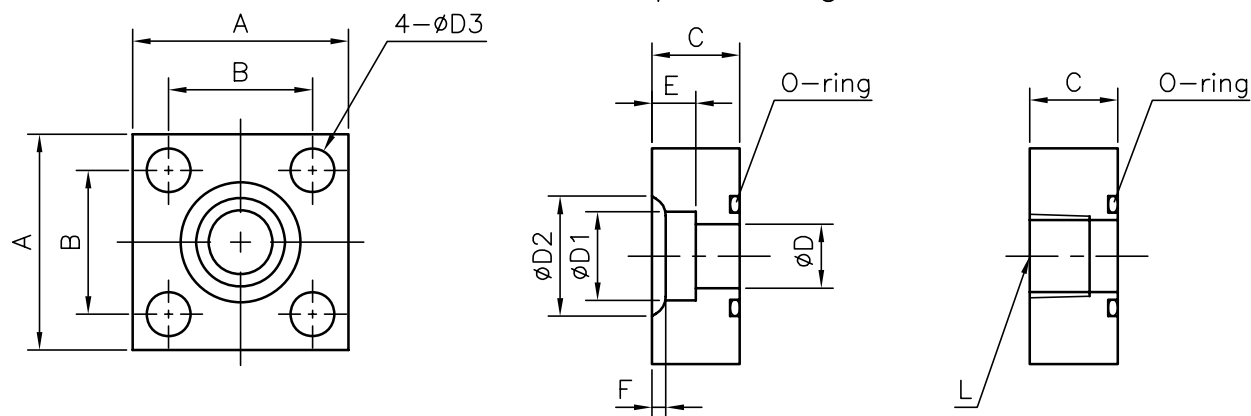
前端球面軸承接頭— L0
Spherical Rod End Type— L0

前端平行接頭— L0
Plain Rod End Type— L0



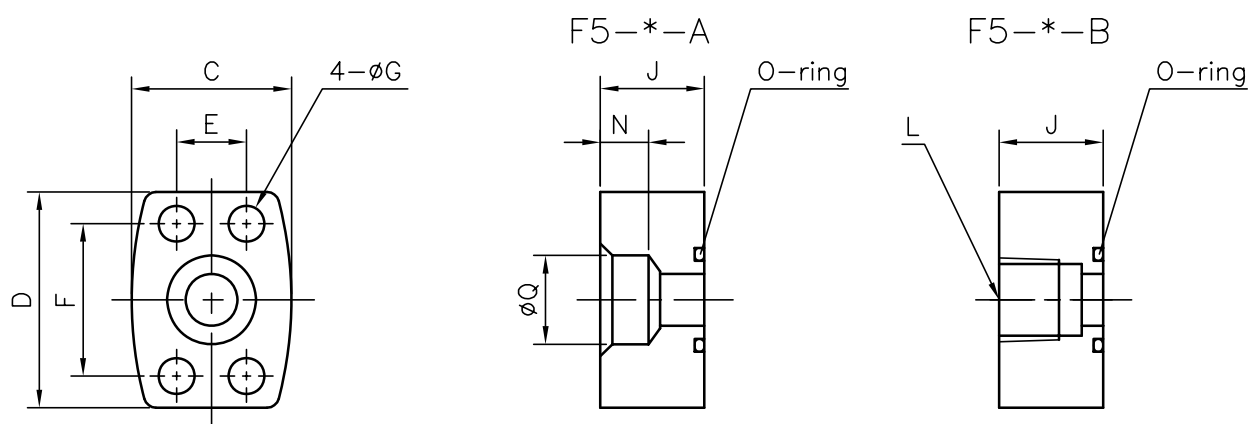
Piston Dia.	B1 ⁰ ₋₀₄	B2	B3	D1	øD2	L1	L2	L3	L4	R	T1	G	Weigh(kg)
80	35	28 ⁰ _{-0.12}	55	M 39x3	40 ⁰ _{-0.012}	105	45	50.0	78	47.0	55	7°	2.4
100	40	35 ⁰ _{-0.12}	70	M 50x3	50 ⁰ _{-0.012}	135	55	63.0	90	58.0	75	7°	4.1
125	50	44 ⁰ _{-0.15}	87	M 64x3	60 ⁰ _{-0.015}	170	65	70.0	118	65.0	95	7°	6.5
140	55	49 ⁰ _{-0.15}	105	M 80x3	70 ⁰ _{-0.015}	195	75	83.0	130	77.0	110	6°	9.5
160	60	55 ⁰ _{-0.15}	125	M 90x3	80 ⁰ _{-0.015}	210	80	95.0	152	88.0	120	6°	16.0
180	65	60 ⁰ _{-0.20}	150	M100x3	90 ⁰ _{-0.020}	250	90	113.0	162	103.0	140	5°	28.0
200	70	70 ⁰ _{-0.20}	170	M110x4	100 ⁰ _{-0.020}	275	105	125.0	192	115.0	150	7°	34.0
220	80	70 ⁰ _{-0.20}	180	M120x4	110 ⁰ _{-0.020}	300	115	142.5	194	132.5	160	6°	44.0
250	80	70 ⁰ _{-0.20}	180	M120x4	110 ⁰ _{-0.020}	300	115	142.5	194	132.5	160	6°	44.0
280	90	85 ⁰ _{-0.20}	210	M150x4	120 ⁰ _{-0.020}	360	140	180.0	224	170.0	190	6°	75.0
300	90	85 ⁰ _{-0.20}	210	M150x4	120 ⁰ _{-0.020}	360	140	180.0	224	170.0	190	6°	75.0
320	110	90 ⁰ _{-0.25}	230	M160x4	140 ⁰ _{-0.025}	420	185	200.0	246	190.0	200	7°	160.0

SSA 油壓凸緣 "SSA" Series Pipe Flange Kits



SIZE	A	B	C	D	D1	D2	D3	E	F	L	O-ring	Weigh(kg)
15	54	36	22	16	22.2	32	11	11	3.5	Rc 1/2	G25	
20	58	40	22	20	27.7	38	11	12	4.0	Rc 3/4	G30	
25	68	48	28	25	34.5	45	13	14	4.0	Rc 1	G35	
32	76	56	28	31.5	43.2	56	13	16	6.0	Rc 1-1/4	G40	
40	92	65	36	37.5	49.1	63	18	18	7.0	Rc 1-1/2	G50	
50	100	73	36	47.5	61.1	75	18	20	7.0	Rc 2	G60	
65	128	92	45	60	77.1	95	22	22	9.0	Rc 2-1/2	G75	
80	140	103	45	71	90.0	108	24	25	11.0	Rc 3	G85	

F5 油壓凸緣 "F5" Series Pipe Flange Kits



SIZE	C	D	E	F	G	J	N	Q	L	O-ring	Weigh(kg)
F5-04W-A(B)	40	54	17.5	38.1	8.8	26	9	17.8	Rc 3/8	P22	0.5
F5-04 -A(B)	40	54	17.5	38.1	8.8	26	11	22.2	Rc 1/2	P22	0.5
F5-06X-A(B)	48	65	22.2	47.6	11	28	12	27.7	Rc 3/4	G30	0.7
F5-06 -A(B)	48	65	22.2	47.6	11	28	12	27.7	Rc 3/4	G30	0.7
F5-08W-A(B)	55	70	26.2	52.4	11	28	12	27.7	Rc 3/4	G35	0.9
F5-08 -A(B)	55	70	26.2	52.4	11	28	14	34.5	Rc 1	G35	0.9
F5-10 -A(B)	64	80	30.2	58.7	11	29	16	43.2	Rc 1-1/4	G40	1.2
F5-12 -A(B)	72	94	35.7	69.9	13.5	30	18	49.1	Rc 1-1/2	G50	1.5
F5-16W-A(B)	85	102	42.9	77.8	13.5	30	18	49.1	Rc 1-1/2	G60	1.8
F5-16 -A(B)	85	102	42.9	77.8	13.5	30	20	61.1	Rc 2	G65	1.7
F5-20 -A(B)	102	114	50.8	88.9	13.5	38	22	77.1	Rc 2-1/2	G75	2.0
F5-24 -A(B)	116	135	61.9	106.4	17.5	38	25	90.0	Rc 3	G85	2.7